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10/06/00

UTILITY PATENT APPLICATION TRANSMITTAL
(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. : PSTM0009/MRK/STM
Inventor(s) : David Allison Bennett, et al.
Title : REPORTING SHIPPING RATES AND DELIVERY SCHEDULES FOR
MULTIPLE SERVICES AND MULTIPLE CARRIERS
Express Mail Label No. : EK623102684US

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

Date: October 6, 2000

1. X FEE TRANSMITTAL FORM (Submit an original, and a duplicate for fee processing).

2. IF A CONTINUING APPLICATION

 This application is a of patent application No. .

Prior application information: Examiner ; Group Art Unit:

X This application claims priority pursuant to 35 U.S.C. §119(e) and 37 CFR §1.78(a)(4), to provisional Application No. 60/158,179, Filing Date October 6, 2000; Application No. 60/170,186, Filing Date December 10, 1999; Application No. 60/170,504, Filing Date December 13, 1999; Application No. 60/192,692, Filing Date March 28, 2000; Application No. 60/192,723, Filing Date March 27, 2000; Application No. 60/193,899, Filing Date March 31, 2000; and Application No. 60/195,748, Filing Date April 6, 2000.

3. APPLICATION COMPRISED OF

Specification

112 Specification, claims and Abstract (total pages)

Drawings

92 Sheets of drawing(s) (FIGS. 1 to 82)

Declaration and Power of Attorney

 Newly executed
X Unexecuted declaration
 Copy from a prior application (37 CFR 1.63(d))(for continuation and divisional)

4. Microfiche Computer Program (Appendix)

5. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)

 Computer Readable Copy
 Paper Copy (identical to computer copy)
 Statement verifying identity of above copies

6. ALSO ENCLOSED ARE

 Preliminary Amendment

 A Petition for Extension of Time for the parent application and the required fee are enclosed as separate

UTILITY PATENT APPLICATION TRANSMITTAL
(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.: PSTM0009/MRK/STM

papers

Small Entity Statement(s)

Statement filed in parent application, status still proper and desired

Copy of Statement filed in provisional application, status still proper and desired

An Assignment of the invention with the Recordation Cover Sheet and the recordation fee are enclosed as separate papers

This application is owned by pursuant to an Assignment recorded at Reel , Frame

Information Disclosure Statement (IDS)/PTO-1449

Copies of IDS Citations

Certified copy of Priority Document(s) (*if foreign priority is claimed*)

English Translation Document (*if applicable*)

Return Receipt Postcard (MPEP 503) (should be specifically itemized).

Other

7. CORRESPONDENCE ADDRESS

***KHORSANDI PATENT LAW GROUP
A LAW CORPORATION
140 S. Lake, Suite 312
Pasadena, California 91101***

Respectfully submitted,

KHORSANDI PATENT LAW GROUP, A.L.C.

By

Marilyn R. Khorsandi

Marilyn R. Khorsandi

Reg. No. 45,744

626/796-2856

MRK/crb

**FEE TRANSMITTAL
UTILITY PATENT APPLICATION**

DATE: October 6, 2000

JCE13 U.S. PTO
09/684869
10/06/00

Docket No. :	PSTM0009/MRK/STM
Inventor(s) :	David Allison Bennett, et al.
Title :	REPORTING SHIPPING RATES AND DELIVERY SCHEDULES FOR MULTIPLE SERVICES AND MULTIPLE CARRIERS

FEE DETERMINATION

CLAIMS AS FILED					
	NUMBER FILED	NUMBER EXTRA	SMALL ENTITY RATE	LARGE ENTITY RATE	FEE
TOTAL CLAIMS	63- 20	43	x \$9.00	43 x \$18.00	\$774.00
INDEPENDENT CLAIMS	21- 3	20	x \$40.00	18 x \$80.00	\$1,440.00
MULTIPLE-DEPENDENT CLAIMS FEE			\$135.00	\$270.00	
BASIC FEE			\$355.00	\$710.00	\$710.00
				TOTAL FILING FEE	\$2,924.00

List Independent Claims: 1, 2, 3, 4, 7, 8, 15, 22, 23, 24, 25, 28, 29, 36, 43, 44, 45, 46, 49, 50 and 57

METHOD OF PAYMENT

No Payment Enclosed

Respectfully submitted,

KHORSANDI PATENT LAW GROUP *A.L.C.*

By 
 Marilyn R. Khorsandi
 Reg. No. 45,744
 626/796-2856

MRK/crb

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PSTM0009/MRK/STM

1 REPORTING SHIPPING RATES AND DELIVERY SCHEDULES FOR MULTIPLE
2 SERVICES AND MULTIPLE CARRIERS

3

4 CROSS REFERENCE TO RELATED APPLICATIONS

5 This application claims priority of U.S. Provisional Patent Application Serial No.
6 60/158,179, filed on October 6, 1999, U.S. Provisional Patent Application Serial No.
7 60/170,186, filed on December 10, 1999, U.S. Provisional Patent Application Serial No.
8 60/170,504, filed on December 13, 1999, U.S. Provisional Patent Application Serial
9 No. 60/192,692, filed on March 28, 2000, U.S. Provisional Patent Application Serial No.
10 60/192,723, filed on March 27, 2000, U.S. Provisional Patent Application Serial No.
11 60/193,899, filed on March 31, 2000, and U.S. Provisional Patent Application Serial No.
12 60/195,748, filed on April 6, 2000. The disclosures of U.S. Provisional Patent Application
13 Serial No. 60/158,179, filed on October 6, 1999, U.S. Provisional Patent Application Serial
14 No. 60/170,186, filed on December 10, 1999, U.S. Provisional Patent Application Serial No.
15 60/170,504, filed on December 13, 1999, are incorporated for all purposes herein by reference
16 as if fully stated here.

17

18 FIELD OF THE INVENTION

19 The field of the present invention is computer systems, and specifically computer
20 systems for parcel shipping management.

21

22 BACKGROUND OF THE INVENTION

23 Individuals, small businesses and major corporations the ("Shipper(s)") ship billions
24 of parcels every year (small office/home office shippers are referred to as "SOHO" Shippers).
25 Each parcel, also sometimes referred to herein as a package, is shipped by a Shipper using at
26 least one parcel carrier (the "carrier(s)", or "Carrier(s)").

27 Each parcel is characterized by a set of "Parcel Specifications." Parcel specifications
28 include but are not limited to such factors as: parcel dimensions, parcel weight, parcel value,
29 parcel value and the like.

1 Each Shipper is faced with certain shipping requirements and limitations (“Shipping
2 Requirements”), such as the location from which the parcel is to be shipped, time frame
3 within which the particular parcel must arrive at its destination, the ability of the shipper to
4 drop off the parcel, budgetary constraints with regard to the cost of shipping, insurance
5 against loss, delivery notification, loss protection, and the like.

6 Each Carrier has its own unique rating schedule, and delivery and pickup rules and
7 schedules for each of a multitude of different services. In some cases, a particular Carrier’s
8 rules may be available in a standalone Carrier-provided paper-based or computer system.
9 Many Shippers attempt to work with each of the standalone, individual paper-based and
10 computer Carrier-provided systems (“standalone Carrier system environment”) in order to
11 ship a parcel.

12 A Shipper that uses standalone Carrier systems must sort through the various services
13 offered by each carrier and apply each Carrier’s rules to determine whether one or more
14 carriers offer a service with which to deliver a particular parcel according to the Shipper’s
15 requirements. If the Shipper determines that more than one carrier offers a service with
16 which to deliver a particular parcel according to the Shipper’s requirements, then the
17 particular Shipper might additionally be concerned with selecting a carrier and service that
18 provide shipping services at the optimal price.

19 One of the problems in dealing with standalone Carrier systems is that the Shipper
20 must attempt to apply each Carrier’s pricing rules for shipping to a particular parcel in order
21 to get a preview of rates for shipping the parcel. Each Carrier’s pricing rules must be
22 separately applied by the Shipper to a particular parcel’s specifications and an origin and a
23 destination zip code in order to preview each Carrier’s rates for shipping a particular parcel.
24 Accordingly, some way is needed so that a Shipper can accurately and easily preview
25 shipping rates for each Carrier that supports shipping of the particular package to be shipped.
26

27 SUMMARY OF THE INVENTION

28 The present invention provides apparatus, systems and methods for presenting to each
29 of a plurality of users upon each user’s request a preview of shipping rates and delivery
30 schedules for the particular user to ship a particular package, wherein each user accesses the

1 present invention over a global communications network using a client computer device, and
2 wherein each user client computer device has an individual electronic connection to the global
3 communications network. It should be understood by someone with ordinary skill in the art
4 that the phrase "presenting" information to a user includes presenting a visual display of the
5 mentioned information as well as verbal reporting of the mentioned information.

6 Alternatively, although the exemplary embodiments of the invention herein present
7 information by displaying information, it should be understood by someone with ordinary
8 skill in the art that presenting such information in a verbal message, such as in a voice mail
9 message, does not depart from the spirit of the present invention.

10 The present invention collects as parcel specifications for a particular parcel a user
11 input from one of the plurality of users wherein said user input comprising at least one of: a
12 package type, package dimensions, package weight, and a value of the particular parcel. The
13 present invention further collects from the particular user a user input of an origin zip code
14 and a destination zip code.

15 The present invention calculates for each of a plurality of services offered by a
16 plurality of carriers a shipping rate for shipping the particular parcel according to a set of
17 parcel characteristics shipping rules for the particular carrier and according to a set of pricing
18 rules for each particular service offered by the particular carrier as applied to a set of parcel
19 specifications for the particular parcel input by the particular user and as applied to an origin
20 zip code and an exemplary destination zip code input by the particular user.

21 The present invention generates an online comparison display to a display monitor
22 configured with the client computer device of the particular user a preview of shipping rates
23 for shipping the particular parcel according to a set of parcel characteristics shipping rules for
24 each of the plurality of carriers and according to a set of pricing rules for each of a plurality of
25 services offered by each particular carrier as applied to the parcel specifications and as
26 applied to the origin zip code and the exemplary destination zip code.

27 The present invention compares shipping rates and delivery schedules for each service
28 and each carrier for shipping a particular package and reports the carrier and service offering
29 the lowest rate or the fastest delivery schedule, according to the user's option.

1 BRIEF DESCRIPTION OF THE DRAWINGS

2 These and other features of the present invention are more fully set forth in the
3 following description of exemplary embodiments of the invention. The description is
4 presented with reference to the accompanying drawings in which:

5 FIG. 1 is an entity relationship diagram depicting the interface relationships provided
6 by the System between Shippers as Sellers, Carriers, Recipients as Buyers,
7 eCommerce/eAuction Providers and the System in an exemplary embodiment of the System
8 in an independent system eCommerce environment;

9 FIG. 2 is an entity relationship diagram depicting the interface relationships provided
10 by the System between Shippers, Carriers, Recipients and the System in an exemplary
11 embodiment of the System in an Internet environment;

12 FIG. 3 is a graphic representation depicting an exemplary user computer configuration
13 and the user computer's interface with the System in an Internet environment;

14 FIG. 4 is a simplified schematic diagram of a user's computer and the interface
15 between the user's computer and the System servers using the Internet in an exemplary
16 embodiment of the invention in an Internet environment;

17 FIG. 5 is a simplified graphic representation of an exemplary configuration of the
18 System, and relationships between the System and Carriers and Users, in an exemplary
19 embodiment of the System in an independent system eCommerce environment;

20 FIG. 6 is a simplified graphic representation depicting an alternate view of the System
21 Data Center and its interfaces in an exemplary embodiment of the System in an independent
22 system eCommerce environment;

23 FIG. 7 is a simplified graphic representation of an exemplary configuration of the
24 System, and relationships between the System and Carriers and Shippers/Users, in an
25 exemplary simplified Internet embodiment of the invention;

26 FIG. 8 is a high level System component diagram depicting an exemplary System
27 Architecture in an exemplary embodiment of the System in an Internet environment;

28 FIG. 9 is a graphic representation of an exemplary menu architecture for the System in
29 an exemplary embodiment of the System in an independent system eCommerce environment;

30 FIGS. 10a through 10e are high level logic flow diagrams depicting the logic flow for

1 processing both Shipper/Seller and Buyer/Bidder information in an exemplary embodiment of
2 the System in an independent system eCommerce environment;

3 FIG. 11 is a graphic representation depicting an exemplary embodiment of a
4 registration introduction screen in an exemplary embodiment of the System in an independent
5 system eCommerce environment;

6 FIG. 12 is a graphic representation depicting an exemplary embodiment of a User
7 address collection screen in an exemplary embodiment of the System in an independent
8 system eCommerce environment;

9 FIG. 13 is a graphic representation of an exemplary embodiment of a Shipping
10 Location screen in an exemplary embodiment of the System in an independent system
11 eCommerce environment;

12 FIG. 14 is a graphic representation depicting an exemplary embodiment of a Locations
13 screen in an exemplary embodiment of the System in an independent system eCommerce
14 environment;

15 FIG. 15 is a graphic representation depicting an alternative exemplary embodiment of
16 a Locations screen inset in an alternative exemplary embodiment of the System in an Internet
17 environment;

18 FIG. 16 is a graphic representation of an exemplary embodiment of a UPS registration
19 screen in an exemplary embodiment of the System in an independent system eCommerce
20 environment;

21 FIG. 17 is a graphic representation of an exemplary embodiment of an eCommerce
22 registration introduction screen in an exemplary embodiment of the System in an independent
23 system eCommerce environment;

24 FIG. 18 is a graphic representation of a registration complete screen in an exemplary
25 embodiment of the System in an independent system eCommerce environment;

26 FIG. 19 is a graphic representation of an exemplary embodiment of the Seller's
27 Carrier/Service Preferences Screen in an exemplary embodiment of the System in an
28 independent system eCommerce environment;

29 FIG. 20 is a graphic representation of an alternative embodiment of the Seller's
30 Carrier/Service Preferences Screen in an exemplary embodiment of the System in an

1 independent system eCommerce environment;

2 FIG. 21 is a graphic representation of an exemplary embodiment of a Seller's Charges
3 and Payment Preferences Screen in an exemplary embodiment of the System in an
4 independent system eCommerce environment;

5 FIG. 22 is a graphic representation of an alternative embodiment of the Seller's
6 Charges and Payment Preferences Screen in an exemplary embodiment of the System in an
7 independent system eCommerce environment;

8 FIG. 23 is a System interactivity data and logic flow diagram depicting an exemplary
9 embodiment of the Seller's eCommerce Registration process in an exemplary embodiment of
10 the System in an independent system eCommerce environment;

11 FIG. 24 is a graphic representation of a Registration Needs Completion Screen in an
12 exemplary embodiment of the System in an independent system eCommerce environment;

13 FIG. 25 is a graphic representation of an exemplary embodiment of a Create a Seller's
14 Link Screen in an exemplary embodiment of the System in an independent system
15 eCommerce environment;

16 FIG. 26 is a graphic representation of an alternative online screen that collects a
17 user's shipping specifications and preferences in an alternative exemplary embodiment of the
18 System in an Internet environment;

19 FIGS. 27a through 27c are high level logic flow diagrams control communications
20 with client machine peripheral devices in an exemplary embodiment of the System in an
21 Internet environment;

22 FIG. 28 is a graphic representation of an alternative online screen that collects
23 supplemental user shipping specifications and preferences in an alternative exemplary
24 embodiment of the System in an Internet environment;

25 FIG. 29 is a graphic representation of an alternative embodiment of a Create a Seller's
26 Link Screen in an exemplary embodiment of the System in an independent system
27 eCommerce environment;

28 FIG. 30 depicts an exemplary alternative embodiment of the Create a Seller's Link
29 screen in an exemplary embodiment of the System in an independent system eCommerce
30 environment;

1 FIG. 31 depicts the text of an exemplary hypertext link such as is created by an
2 exemplary embodiment of the “Create Link” feature in an exemplary embodiment of the
3 System in an independent system eCommerce environment;

4 FIG. 32 is a graphic representation depicting an alternative embodiment of a hyperlink
5 generated by the System in an exemplary embodiment of the System in an independent
6 system eCommerce environment;

7 FIGS. 33a and 33b represent a database schema diagram that depicts an exemplary
8 embodiment of tables in which data is stored by the System regarding a particular Seller
9 Account in an exemplary embodiment of the System in an independent system eCommerce
10 environment;

11 FIG. 34 is a graphic representation of an exemplary embodiment of a Seller’s
12 eCommerce/eAuction web site page in an exemplary embodiment of the System in an
13 independent system eCommerce environment;

14 FIG. 35 is a graphic representation of an exemplary Buyer shipping rating information
15 collection screen that the Buyer would see upon entry into the System in an exemplary
16 embodiment of the System in an independent system eCommerce environment;

17 FIG. 36a is a graphic representation depicting an exemplary embodiment of a
18 dynamically dimensioned, multi-carrier, multi-service shipping rates comparison Graphic
19 Array in an exemplary embodiment of the System in an independent system eCommerce
20 environment;

21 FIGS. 36b through 36e are high level data retrieval logic flow diagrams depicting the
22 data and high level logic that the system uses to calculate a shipping rate;

23 FIG. 36f is a graphic representation of an alternative exemplary Preview Rates Screen
24 (also referred to in some embodiments as a Rates and Times Screen) in an alternative
25 exemplary embodiment of the invention;

26 FIGS. 37a and 37b represent a System interactivity data and logic flow diagram
27 depicting an exemplary embodiment of the Create Link and the Buyer’s Preview Shipping
28 Rates functionality in an exemplary embodiment of the System in an independent system
29 eCommerce environment;

30 FIG. 38 is a high level flow diagram depicting an overview of the System logic to

1 generate a dynamically dimensioned, multi-carrier, multi-service shipping rates comparison
2 Graphic Array in an exemplary embodiment of the System in an Internet environment;

3 FIGS. 39a through 39c are high level flow diagrams depicting the initial timing and
4 rating logic to develop a dynamically dimensioned, multi-carrier, multi-service shipping rates
5 comparison Graphic Array in an exemplary embodiment of the System in an Internet
6 environment;

7 FIG. 40 is a graphic representation depicting an exemplary embodiment of a multi-
8 carrier, multi-service shipping rates comparison Graphic Array in an exemplary embodiment
9 of the System in an independent system eCommerce environment;

10 FIG. 41 is a graphic representation of a Seller's Buyer Information Screen in an
11 exemplary embodiment of the System in an independent system eCommerce environment;

12 FIG. 42 is a graphic representation of an exemplary embodiment of a Subject Parcel
13 data screen in an exemplary embodiment of the System in an independent system eCommerce
14 environment;

15 FIG. 43 is a graphic representation of an exemplary embodiment of a System-prepared
16 e-mail to the Buyer in an exemplary embodiment of the System in an independent system
17 eCommerce environment;

18 FIG. 44 is a graphic representation of an exemplary embodiment of the Buyer
19 Response Introduction screen in an exemplary embodiment of the System in an independent
20 system eCommerce environment;

21 FIG. 45 is a graphic representation of an exemplary embodiment of the Buyer
22 Shipping Information Collection screen in an exemplary embodiment of the System in an
23 independent system eCommerce environment;

24 FIG. 46 is a graphic representation depicting an alternative exemplary embodiment of
25 a dynamically dimensioned, multi-carrier, multi-service shipping rates comparison Graphic
26 Array in an alternative exemplary embodiment of the System in an independent system
27 eCommerce environment;

28 FIG. 47 is a graphic representation depicting an exemplary embodiment of a Shipping
29 Summary Screen in an exemplary embodiment of the System in an independent system
30 eCommerce environment;

1 FIG. 48 is a graphic representation depicting an alternative exemplary embodiment of
2 a Shipping Summary Screen in an exemplary embodiment of the System in an Internet
3 environment;

4 FIG. 49 is a graphic representation depicting an exemplary embodiment of a
5 Cardholder Information collection screen in an exemplary embodiment of the System in an
6 independent system eCommerce environment;

7 FIG. 50 is a graphic representation depicting an exemplary embodiment of a System's
8 Shipping Log in an exemplary embodiment of the System in an independent system
9 eCommerce environment;

10 FIG. 51 is a graphic representation depicting an exemplary embodiment of a Seller
11 notification e-mail in an exemplary embodiment of the System in an independent system
12 eCommerce environment;

13 FIG. 52 is a graphic representation of an exemplary embodiment of a Void Package
14 screen in an exemplary embodiment of the System in an independent system eCommerce
15 environment;

16 FIG. 53 is a graphic representation of an exemplary embodiment of a Reprint Label
17 screen in an exemplary embodiment of the System in an independent system eCommerce
18 environment;

19 FIG. 54 is a high level flow diagram depicting an exemplary embodiment of Label
20 Printing in an exemplary embodiment of the System in an Internet environment;

21 FIG. 55 is a high level flow diagram depicting an exemplary embodiment of Image
22 Printing in an exemplary embodiment of the System in an Internet environment;

23 FIGS. 56 through 58 are graphic representations of exemplary online screens with
24 which a user controls the final shipping and label printing for a particular package in an
25 alternative exemplary embodiment in an Internet environment;

26 FIG. 59 is a graphic representation of an exemplary embodiment of a Send Ship
27 Notification screen in an exemplary embodiment of the System in an independent system
28 eCommerce environment;

29 FIG. 60 is a graphic representation of an alternative exemplary embodiment of a Send
30 Ship Notification screen in an alternative exemplary embodiment of the System in an Internet

1 environment;

2 FIG. 61 is a graphic representation depicting an exemplary embodiment of a Ship a
3 Package Summary online report in an exemplary embodiment of the System in an
4 independent system eCommerce environment;

5 FIG. 62 is a graphic representation depicting an exemplary embodiment of a UPS
6 End-of-Day Screen in an exemplary embodiment of the System in an independent system
7 eCommerce environment;

8 FIG. 63 is a graphic representation of an exemplary embodiment of a Reprint Driver
9 Record Screen in an exemplary embodiment of the System in an independent system
10 eCommerce environment;

11 FIGS. 64a-1, 64a-2, 64b-1 and 64b-2 are System interactivity data and logic flow
12 diagrams depicting an exemplary embodiment of the process by which the System completes
13 the information necessary to ship a package in an exemplary embodiment of the System in an
14 independent system eCommerce environment;

15 FIGS. 65a and 65b represent a database schema diagram that depicts an exemplary
16 embodiment of tables in which data is stored by the System regarding a particular package
17 and a particular Seller's Account in an exemplary embodiment of the System in an
18 independent system eCommerce environment;

19 FIG. 66 depicts an exemplary XML formatted request for submitting a tracking
20 request to a Carrier in an exemplary embodiment of the System in an Internet environment;

21 FIG. 67 depicts an exemplary successful tracking response, also in XML format,
22 returned by the Carrier in an exemplary embodiment of the System in an Internet
23 environment;

24 FIG. 68 is a graphic representation of a Shipper online user input screen that is
25 displayed on the Shipper's display screen in an exemplary embodiment of the System in an
26 Internet environment;

27 FIG. 69 is a logic flow diagram that depicts the high level logic for tracking the status
28 of a particular package in an exemplary embodiment of the System in an Internet
29 environment;

30 FIG. 70 is a graphic representation of an exemplary embodiment of a Tracking Failure

1 Report Screen in an exemplary embodiment of the System in an Internet environment;

2 FIG. 71 is a graphic representation of an exemplary embodiment of a Successful
3 Tracking Report Screen for a package with Delivered status in an exemplary embodiment of
4 the System in an Internet environment;

5 FIG. 72 is a graphic representation of an exemplary embodiment of a Successful
6 Tracking Report Screen for a package with non-final status in an exemplary embodiment of
7 the System in an Internet environment;

8 FIG. 73 is a graphic representation of an exemplary CMS online user input screen in
9 an exemplary embodiment of the System in an Internet environment;

10 FIG. 74 is a graphic representation of an exemplary CMS display screen that reports a
11 successful tracking result in an exemplary embodiment of the System in an Internet
12 environment;

13 FIG. 75 is a graphic representation of an exemplary CMS error tracking report display
14 screen in an exemplary embodiment of the System in an Internet environment;

15 FIG. 76 is a graphic representation of an exemplary embodiment of a “My Tracking”
16 Screen in an exemplary embodiment of the System in an Internet environment;

17 FIG. 77 is a graphic representation of an exemplary embodiment of a Shipping Log
18 Screen;

19 FIG. 78 is a graphic representation of an exemplary embodiment of a Detailed
20 Shipping Log Entry Screen in an exemplary embodiment of the System in an Internet
21 environment;

22 FIG. 79 is a graphic representation of an exemplary embodiment of a detailed “Quick
23 Track” result screen in an exemplary embodiment of the System in an Internet environment;

24 FIG. 80 is a graphic display of an exemplary embodiment of an “Add Inbound
25 Packages” Screen in an exemplary embodiment of the System in an Internet environment;

26 FIG. 81 is a graphic representation of an exemplary embodiment of a “View Inbound
27 Packages” Summary Screen in an exemplary embodiment of the System in an Internet
28 environment; and

29 FIG. 82 is a graphic representation of a View Inbound Packages Detail Screen in an
30 exemplary embodiment of the System in an Internet environment.

1 DETAILED DESCRIPTION OF THE INVENTION

2

3 A portion of the disclosure of this patent document, including but not limited to the
4 renderings of graphic user interface displays in FIGS. 10a through 10e, FIGS. 11 through 22,
5 FIGS. 24 through 26, FIGS. 28 through 30, FIGS. 34 through 35, FIG. 36a, FIG. 36f, FIGS.
6 40 through 53, FIGS. 56 through 63, FIGS. 68, and FIGS. 70 through 82, contains material
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15

16 **A. CONTEXTUAL OVERVIEW OF EXEMPLARY EMBODIMENT TYPES**

17 Two types of exemplary Internet-related embodiments of the invention will be
18 described herein: 1.) an exemplary simplified Internet embodiment; and 2.) an exemplary
19 electronic commerce (“eCommerce”) embodiment. Because these two types of embodiments
20 differ somewhat in user interface interaction features and flow, a brief perspective overview
21 of these two exemplary embodiment types is provided below.

22

23 **1. Exemplary Simplified Internet Embodiment.**

24 In the exemplary simplified Internet embodiment of the invention, a system (the
25 “System”) exemplifying features of the invention provides a single automated computer
26 interface between users of the system who are shippers of parcels (“Shippers”) and multiple
27 carriers of parcels (“Carriers”). Each Shipper, using a client computer device, accesses the
28 System over a global communications network such as the Internet. Each Shipper uses the
29 System to arrange for, and manage the shipment of, one or more parcels. Each shipment

1 arranged by a Shipper is performed by a particular Carrier, using a particular service offered
2 by that particular Carrier. References herein to the words “parcel” and “package” include
3 letters, and larger items (*see, e.g.*, FIG. 15 below and Packaging types 1043 (Carrier Letter),
4 1044 (Carrier Pak), 1046 (Carrier Box), 1047 (Carrier Tube), and 1045 (Other Packaging)).

5 Each Carrier may provide one or more types of shipment services, such as, for
6 example, Next Day, Two-Day, etc. Each parcel shipped by the Shipper is shipped to a
7 particular Recipient. Each supported Carrier has a unique rating schedule, delivery and
8 pickup rules and schedules, and certification requirements (the “Carrier Rules”).

9 In the exemplary simplified Internet embodiment, the Shipper provides all information
10 required by the System to facilitate the shipping of each parcel to be shipped by a Carrier
11 designated by the Shipper; the recipient, once provided with a tracking number can access the
12 System to track the status of a package but is not called upon to provide any information
13 necessary to facilitate or manage the shipment. As is further described below, the provision
14 of information by the Shipper in the exemplary simplified Internet embodiment differs from
15 the exemplary eCommerce embodiment, in which both the Shipper (also referred to as the
16 “Seller”) and the Recipient (also referred to as the “Buyer”) provide information to the
17 System to facilitate and manage a particular shipment.

18

19 **2. Exemplary eCommerce Embodiment.**

20 In an eCommerce embodiment of the invention, the Shipper is a seller (the “Seller”) of
21 goods through a particular eCommerce or electronic Auction (“eAuction”) provider
22 (eCommerce or eAuction web site). The Seller/Shipper registers with a particular
23 eCommerce/eAuction provider (the “Provider”) at the Provider’s Web site to sell, advertise,
24 or otherwise describe, one or more items that the Seller/Shipper hopes to sell or award to the
25 highest bidder using an electronic auction facility.

26 As opposed to the exemplary simplified Internet embodiment where all information
27 necessary for arranging a particular shipment is provided by the Shipper, in the exemplary
28 eCommerce embodiment of the invention, the System prompts different individuals to provide
29 information necessary to rate and ship a particular parcel.

1 The Seller/Shipper (sometimes referred to herein simply as the “Seller,” or as the
2 “Shipper”) provides information to the System concerning the particular parcel that the Seller
3 will be selling/auctioning and subsequently shipping. The Seller also describes to the System
4 the Seller’s rules by which potential and actual buyers (sometimes referred to herein as
5 “Buyers/Recipients”, or simply as “Buyers”, or as “Recipients”) view the shipping, payment
6 and other options.

7 A potential Buyer of an item to be purchased from a particular Seller is prompted by
8 the System to initially provide certain limited shipping information (such as a destination zip
9 code) in order to preview shipping rates for the item that the Buyer is considering purchasing.

10 An actual Buyer is prompted by the System to provide shipping details such as the
11 Buyer’s destination address. If the Seller has instructed the System to require the Buyer to pay
12 shipping costs, the System prompts the Buyer to make the final selection of Carrier and
13 Service.

14 The System in the exemplary eCommerce embodiment provides a communication link
15 between the Buyer and the Seller, sending certain types of notifications and information
16 between them.

17 Further differences between the exemplary eCommerce embodiment and the
18 exemplary simplified Internet embodiment include, among other things, the typical access
19 entry into the System. In the exemplary simplified Internet embodiment, the Shipper accesses
20 the Shipping site directly. In the exemplary eCommerce embodiment, the Seller/Shipper can
21 additionally “link” to the Shipping site from the relevant eCommerce Provider’s Site.

22 The System and screen flows for the exemplary simplified Internet and eCommerce
23 embodiments differ somewhat. A description of the features that are common between the
24 two types of embodiments of the present invention is provided below as is a description of the
25 differences between the two types of exemplary embodiments.

26 In the exemplary eCommerce embodiment described below, the present invention is
27 provided as a web-based application service from a common provider, sometimes referred to
28 herein as “iShip.com”. As such, the relevant eCommerce Provider does not have to install or
29 manage any server software; the Provider only provides a “link” to the System web site.

1
2 **B. SYSTEM OVERVIEW**
3

4 **1. Entity Interface Relationships**

5 FIG. 1 is a graphic representation depicting the interface relationships provided by an
6 exemplary eCommerce embodiment of the System 1 of the present invention between
7 electronic Commerce providers 2a-2n, Sellers/Shippers 3a-3n, Carriers 4a-4n, and
8 Buyers/Recipients 5a-5n. As conceptually depicted in FIG. 1, each Seller/Shipper 3a-3n
9 views the System 1 as an individualized automated Shipping System.

10 It should be noted that the use of suffixes such as “a” through “n” in connection with
11 numbered elements of the FIGURES herein are exemplary and are not a limitation of the
12 invention to any particular number. Rather, the suffixes “a” through “n” and “a” through “z”,
13 and similar notations, are used to represent any, but unknown, number of similar elements.

14 FIG. 2 depicts the interface relationships provided by an exemplary simplified Internet
15 embodiment of the System between the Shippers 3a-3n, Carriers 4a-4n, and Recipients 5a-5n.
16 As conceptually depicted in FIG. 2, each Shipper 3a-3n views the System 1 as an
17 individualized automated Shipping System.

18 In both the exemplary eCommerce and simplified Internet embodiments, the System 1
19 provides Shippers/Users 3a-3n with a computerized shipping and tracking system that allows
20 shipment by the same Shipper/User 3a-3n of different packages using different services
21 provided by different Carriers 4a-4n. Carriers 4a-4n supported by the System include Carriers
22 such as Airborne, FedEx, United Parcel Service, USPS, and Yellow Freight. The System 1 is
23 completely expandable and scalable to include additional Carriers.

24
25 **2. System Configuration and Architecture**

26 In both the exemplary eCommerce and simplified Internet embodiments, as depicted
27 in FIG. 3, each User 7 (Shipper/Seller or Buyer/Bidder) has access to a computer 8, for
28 instance a personal computer (“PC”). The computer 8 is configured with a display device 9
29 that provides a display screen 10. The computer 8 is further configured with one or more user

1 input devices, such as, for example, a keyboard 11 and a mouse 12. The computer 8 is also
2 configured with a printing device 13, such as a laser printer. The computer 8 may also be
3 configured with a scale 1024 and a bar code reader 1027.

4 Users access 1003 and browse the Internet 15 using a web browser 14 that generally
5 resides and is executed on the user's PC 8. The web browser 14 is a computer program or set
6 of computer instructions that allows the Shipper/User 7 to retrieve and render hyper-media
7 content from one or more Server computers, e.g., 20a-21z available over the Web. Suitable
8 commercially available web browsers include, e.g., Netscape's Navigator™ and Microsoft
9 Internet Explorer™.

10 FIG. 4 is a simplified schematic diagram of a user's computer and the interface
11 between the user's computer and the System servers, such as 20a-21z in FIG. 3, using the
12 Internet in an exemplary embodiment of the invention in an Internet environment. PCs 8a-8n
13 are used by the Shippers and are connected to the Internet 15 through communication links
14 1003a-1003n respectively. Optionally, a local network 1004 may serve as the connection
15 between some of the PCs 8a-8n, such as the PC 8a, and the Internet 15. Servers 20a-21z are
16 also connected to the Internet 15 through respective communication links.

17 Continuing with FIG. 4, each of the PCs 8a-8n includes a central processing unit
18 ("CPU") 1020a for processing and managing data; user input devices such as a keyboard 11a
19 and a mouse 12a for inputting data and a main memory 1023a such as a Random Access
20 Memory ("RAM"). Information in text, graphic and other forms is displayed on the display
21 monitor ("CRT") 9a under the control of the CPU 1020a. A communication device 1028a,
22 such as a modem, provides access 1003a to the Internet 15. In some embodiments, one or
23 more Input/Output ("I/O") devices, such as a printer 13a, scale 1024a, or a bar code reader
24 1027a are configured with the PC.

25 FIG. 5 is a graphic representation of an exemplary configuration of the System in an
26 exemplary eCommerce embodiment of the invention depicting interfaces with Carriers
27 through Carrier Servers, e.g., 23-2 through 27-2, and Shippers/Users through User Input, e.g.,
28 18. When a Shipper/User ships a package using the System 1, one or more of the System's
29 Servers, e.g., 21a-21n, create a new System tracking number 19. When a new System

1 tracking number is created, one of the System's Database Servers, e.g., 20a-20n, adds a new
2 package record with the newly created System tracking number to a Package Table 28. The
3 Package Table 28 resides in the System database 22 and contains package records for System
4 processed packages. The System database may be stored on any storage medium, such as but
5 not limited to, RAM, hard drive, disk drive, tape drive, or other memory device. An
6 exemplary embodiment of the Package Table contains the following information: 1) Package
7 Tracking State ID; 2) Package Shipping State ID; 3) Actual Delivery Time; 4) Delivered To
8 information; 5) Shipping Date; 6) Carrier Tracking Number; 7) System Tracking Number; 8)
9 Carrier ID; 9) Actual Package Weight; 10) Service Description; and 11) Package OID. The
10 content of these fields are described further below.

11 As depicted in FIG. 5, using the Carrier's Internet URL, the System 1 (labeled
12 "iShip.com" in FIG. 5) then makes an HTTP (HyperText Transfer Protocol) connection over
13 the Internet 15 to the Carrier's web server, e.g., 23-2, 24-2, 25-2, 26-2, or 27-2, using the
14 URL information for the particular Carrier's web server.

15 The World Wide Web (WWW or Web) is an access protocol for HTTP (HyperText
16 Transfer Protocol is the communication protocol used by the Internet). The unique
17 identifier for a Server computer is called the IP (Internet Protocol) address; the unique
18 identifier for a web site (web page) is called the URL (Uniform Resource Locator). A URL
19 indicates, among other things, where the Server is located, the location of the web site on the
20 Server, the name of the web page and the file type of each document.

21 Depending upon the Carrier, the System's 1 request and report interface with the
22 Carrier's web server is programmed in HyperText Markup Language ("HTML") (e.g., 24-1,
23 25-1, 27-1), Extensible Markup Language ("XML") (e.g., 26-1), or both HTML and XML
24 (e.g., 23-1), described by way of example. Examples of XML formatted requests and
25 responses with respect to Carrier interface communications are described below in connection
26 with, and depicted in, FIGS. 66 and 67.

27 While the Shipper's/Seller's PC is connected to the Internet 15, a Shipper/Seller may
28 enter the System's 1 Internet interface in one of several ways. The two principle ways
29 discussed herein and described below are: 1) by entering an Internet address, e.g., URL, to the

1 System's home page; or 2) by clicking on an HTML link in an eCommerce/eAuction
2 provider's Web site that contains the URL address to one of the System's Internet pages, for
3 instance, an initial User registration page. A User may enter the System 1 in other ways,
4 among which include a direct communication interface between the User's computer system
5 and the System 1.

6 FIG. 6 is a graphic representation depicting an alternate view of the System
7 comprising the System Data Center's Server Computers 20a-20n and 21a-21z, the System
8 Database 22, and the System's interfaces with Seller and Buyer computers 8a-8n, Carrier
9 Server computers 23-2 through 27-2, and eCommerce/eAuction Providers 28a-28n, via the
10 Internet 15.

11 FIG. 7 is a simplified graphic representation of an exemplary configuration of the
12 System, and relationships between the System and Carriers and Shippers/Users, in an
13 exemplary simplified Internet embodiment of the invention. As depicted in FIG. 7, multiple
14 servers 20a-21z are provided in a Network Operations Center ("NOC"). At least one of the
15 Servers 20a-21z can handle multiple telecommunications connections such as over the
16 Internet 15 at one time. In the embodiment of the NOC depicted in FIG. 7, one Server 20a
17 provides the computer resources to perform Proxy & Firewall functions between the Internet
18 15 and the NOC; one Server, e.g., 21n provides the computer resources to act as the NOC
19 Client Server; one Server, e.g., 21s provides the computer resources to act as the Tracking
20 Server to obtain Carrier tracking information 1019 from the respective carrier's to provide to
21 Shippers over the Internet 15; one Server, e.g., 20a provides the computer resources to act as
22 the Database Server to access data from one or more databases 22 of information; one Server,
23 e.g., 21t provides the computer resources to act as the Shipping Server; one Server, e.g., 21m
24 provides the computer resources to act as the Web Server; and one Server, e.g., 21z provides
25 the resources to provide other services, such as the upload of manifest data 1018 to the Carrier
26 Host Systems, 23-2 through 23-7.

27 It should be understood that the overview configurations of the System depicted in
28 FIG. 5, 6 and 7 are exemplary. For example, the depiction of Server 20a in FIG. 7 as having
29 access to one or more databases 22 is not a limitation of the invention; in alternative

1 embodiments, such as depicted in FIG. 5, any or all of the Servers, 20a-20n, have access to
2 databases and external storage medium.

3 Continuing with FIG. 7, the Servers 20a-21z are connected to or otherwise capable of
4 communicating through, a communications network such as a global communications
5 network such as the Internet 15, which is in turn connected to, or capable of communicating
6 with one or more Personal Computers (“PC”) or other like devices, e.g. 8a, 8b, . . . 8n.

7 Continuing with FIG. 7, Users access and browse the Web using a web browser that
8 generally resides and is executed on the user’s PC, e.g., 8a, 8b, 8c. . . 8n (and as were
9 depicted in FIG. 4).

10 The Internet works based on a client/server model. The present invention uses the
11 client/server model to support the communication with and processing for each of multiple
12 Shippers. For example, as depicted in FIG. 7, the Servers 20a-21z are the server side of the
13 client/server model; each Shipper’s PC 8a, 8b, . . . 8n is a client. The present invention uses
14 the web browser with which each Shipper’s PC accesses the Internet to perform certain
15 functions as further described herein.

16 Web sites are locations on Servers, such as one or more of the Servers, 20a-21z, that
17 are accessible through the Internet 15. The Servers 20a-21z host one or more web sites which
18 are accessible by Shipper users with PCs (e.g., 8a, 8b, . . . 8n) connected with the Internet 15.

19 Carrier Rules, Shipper account information and other content is stored by the Servers,
20 e.g., 20a in databases e.g. 22. Shippers with PCs (e.g., 8a, 8b, . . . 8n) connected to the
21 Internet 15 access Carrier Rules, Shipper account information and other content that is stored
22 by the Servers, e.g., 20a in databases e.g. 22 through a User Interface, which is described in
23 detail below.

24 An overview of an exemplary System architecture is depicted in FIG. 8. The
25 overview depicted is exemplary and meant to be illustrative; it is not a limitation of the
26 invention. As depicted in FIG. 8, one embodiment of the invention uses a three-tiered
27 architecture.

28 The Data Management Tier 1201 is comprised of a Database Storage component 1202
29 that in the embodiment depicted uses an SQL Server; a Message Queue Storage component

1 1203 that in the embodiment depicted uses MS Message Queue; and a File Storage
2 component 1204 that in the embodiment depicted uses NTFS, and DFS. Each of the Database
3 Storage component 1202, the Message Queue Storage component 1203, and the File Storage
4 component 1204, communicate with the Component Tier 1208 of the System architecture,
5 communications by each component with the Component Tier 1208 represented by elements
6 1205, 1206 and 1207 respectively. According to the embodiment depicted in FIG. 8, the
7 Server Components of the Component Tier 1208 use C++ programming language and COM
8 Objects.

9 The Application Tier 1212 of the System Architecture is comprised of a Web Shipper
10 Client component 1213 (which uses HTML, ASP and JavaScript), the NOC Administration
11 component 1214 (which uses HTML, ASP, VB, and C++), and the Web Shipping Station
12 component 1215 (which uses HTML, ASP, JavaScript, C++, and ActiveX Controls). Each of
13 the Web Shipper Client component 1213, the NOC Administration component 1214, and the
14 Web Shipping Station component 1215 communicate with the Server Components of the
15 Component Tier 1208 as represented by the communication elements 1209, 1210 and 1211
16 respectively.

17 In one embodiment, the System is implemented in an NT environment. The
18 description of the System as being implemented in an NT environment is exemplary and is
19 not a limitation of the invention.

20
21 3. Menu Architecture

22 In both the exemplary eCommerce and simplified Internet embodiments, a User can
23 enter the System by entering an Internet address, e.g., a URL, to the System's home page
24 using the User's client web browser.

25 FIG. 9 is a graphic representation of an exemplary menu architecture as would be
26 displayed on an exemplary home page in an exemplary eCommerce embodiment of the
27 System 1 as viewed by the User on a display device, e.g., 9 and 10 as depicted in FIG. 3 and
28 9a as depicted in FIG. 4, connected to the User's Computer, e.g., 8 as depicted in FIG. 3 and
29 8a as depicted in FIG. 4. The term display as used herein will be understood by those with

1 ordinary skill in the art to include visual display on a display device, e.g., 9 and 10 as depicted
2 in FIG. 3 and 9a as depicted in FIG. 4, connected to the User's Computer, e.g., 8 as depicted
3 in FIG. 3 and 8a as depicted in FIG. 4.

4 Other menu configurations and descriptions can be implemented without departing
5 from the spirit of the invention. As depicted in FIG. 9, a main menu bar 34 presents several
6 selection options, including Home 30a, Sell It 31a, Ship It 32a, and Track It 33a. If a User
7 selects, such as by using a keyboard device 11 as shown in FIG. 3, 11a as shown in FIG. 4, or
8 a mouse device 12 as shown in FIG. 3, 12a as shown in FIG. 4, the Home 30a option, the
9 System 1 will display a Home submenu 30b.

10 References to a User selecting will be understood by those with reasonable skill in the
11 art to include selection using a user input device, such as a keyboard device 11 as shown in
12 FIG. 3, 11a as shown in FIG. 4, or a mouse device 12 as shown in FIG. 3, 12a as shown in
13 FIG. 4, connected to the User's Computer, e.g., 8 as depicted in FIG. 3 and 8a as depicted in
14 FIG. 4.

15 Using the exemplary menu architecture depicted in FIG. 9, if the User selects the Sell
16 It 31a option, the System 1 will display a Sell It submenu 31b. If the User selects the Ship It
17 option, the System 1 will display a Ship It submenu 32b. If the User selects the Track It 33a
18 option, the System 1 will display a Track It submenu 33b.

19 In an exemplary simplified Internet embodiment of the invention, the Main Menu
20 would not provide a Sell It 31a application or the submenus and screens associated with the
21 Sell It 31a application.

22

23 **C. THE SELLER'S EXPERIENCE**

24 In an exemplary eCommerce embodiment of the System, if the User enters the System
25 through a link from a Provider, the System 1 will ask the User to log in. (A User that is a
26 Buyer/Bidder that enters the System with a particular Buyer/Bidder URL (Universal Resource
27 Locator), such as through a hypertext e-mail link as is discussed below, is not required to
28 follow the log in procedure.) The log in and registration processes described below are also
29 provided in a similar manner by some simplified Internet embodiments.

1 When a User attempts to log in, the System 1 will attempt to validate the User's log in
2 identification and password. If the User's log in is successful, the System 1 will prompt the
3 User to select one of the available menu options. Otherwise, the System 1 will prompt the
4 User to register and will display the first of several information collection screens to prompt
5 the User through the registration process. Following is a description of the registration User
6 Interface and the associated System 1 processing in an exemplary eCommerce embodiment of
7 the invention.

8 FIGS. 10a through 10e are high level logic flow diagrams depicting the logic flow for
9 processing both Shipper/Seller and Buyer/Bidder information in an exemplary eCommerce
10 embodiment of the invention. An overview of FIGS. 10a through 10e is provided
11 immediately below for context. However, the detailed description of FIGS. 10a through 10e is provided
12 in conjunction with the detailed user interface screens depicted in summary on
13 FIGS. 10a through 10e. Accordingly, the description of FIGS. 10a through 10e is provided
14 gradually below with intervening descriptions of the details concerning the user interface
15 screens described in more detailed FIGURES that are also described below.

16 FIG. 10a depicts general Seller/Shipper/User registration procedures. FIG. 10b depicts
17 eCommerce/eAuction Seller registration procedures, including the Creation of a Link that the
18 Seller can copy and paste in the Seller's Web page description of the item to be sold/shipped.
19 FIG. 10c depicts the actual sales of the item to be shipped and depicts the Buyer experience of
20 viewing the shipping rates and times comparison provided by the System and purchasing or
21 bidding on the item as the case may be. FIG. 10d depicts the collection of shipping and
22 payment information by the Seller and the System 1 from the Buyer. FIG. 10e depicts post
23 sale shipment and payment processing, tracking and notification. The components of each of
24 FIGS. 10a through 10e are discussed in detail below.

25 FIG. 10a depicts general User registration procedures. As depicted in FIG. 10a, the
26 System 1 displays a registration introduction screen 41 to prompt a new eCommerce/eAuction
27 Seller 40 to register with the System 1.

28 FIG. 11 is a graphic representation depicting an exemplary embodiment of a
29 registration introduction screen 41 depicted in FIG. 10a. As depicted in FIG. 11, the

1 registration introduction screen 41 displays introductory text 101 that prompts the User to
2 proceed to the Next screen to provide certain information, such as the User's e-mail and
3 return address and to identify the Carriers with which the User wishes to ship. The User is
4 instructed to press the Next button 102 if the User is ready to proceed with registration. It
5 will be understood by those with ordinary skill in the art that a User "presses" or "clicks" an
6 onscreen button by using a user input device, such as a keyboard device 11 as shown in FIG.
7 3, 11a as shown in FIG. 4, or a mouse device 12 as shown in FIG. 3, 12a as shown in FIG. 4,
8 connected to the User's Computer, e.g., 8 as depicted in FIG. 3 and 8a as depicted in FIG. 4.

9 Alternatively, the User can "press", or "click", on the Reset button 103 which, when
10 clicked, re-initializes the registration application and returns the User to the Introduction
11 page; the Cancel button 104, which when clicked returns the User to the Logged Off Home
12 page; or the Help button 105, which when clicked, displays contextual help text in a pop-up
13 window.

14 If the User clicks on Next button 102, if the User is using a browser that is not
15 supported by the System 1, the System 1 prevents the User from continuing and displays a
16 message to the User that the User's browser is unsupported. Otherwise, if the User clicks the
17 Next button 102, the System 1 will display the next screen 42 in the registration process as
18 depicted in FIG. 10a, which is a User address collection screen.

19 FIG. 12 is a graphic representation depicting an exemplary embodiment of a User
20 address collection screen. As depicted in FIG. 12, the System prompts the User to provide
21 the User's name 106, e-mail address 107, company name 108, street address 109, floor/room
22 number 110, department name 111, city 112, state 113a (using a pull down menu button
23 113b), telephone number 114, zip code 115, and fax number 116. As with the previous
24 registration introduction screen 41, the Next 102, Reset 103, Cancel 104, and Help 105
25 buttons are provided with results similar in nature to the operations of these respective buttons
26 as described above. In addition, a Back button 117 is provided. If the User clicks the Back
27 button 117, the System returns the User to the screen from which the User entered the present
28 screen, in this case, the registration information screen 41. If the User clicks the Next button
29 102, the System performs validation edits on the data entered. If any required fields have not

1 been completed, or if any fields contain data found to be in error, the System notifies the User
2 and requests that corrected data be entered. Because of the similar nature from screen to
3 screen in the System with which the Back 117, Next 102, Reset 103, Cancel 104 and Help
4 105 buttons operate, the operation of these buttons will not be further described.

5 If the data entered is successfully validated, the System displays the next screen,
6 which in this case is the Shipping Location screen 43 as depicted in FIG. 10a. FIG. 13 is a
7 graphic representation of an exemplary embodiment of a Shipping Location screen 43. In the
8 Shipping Location screen 43, the System prompts the User to identify a default location 120a
9 from which the User will typically ship packages and to provide the city, state, and zip code
10 of that location 120b. The Shipping Location screen provides a shipping location input field
11 121a and a shipping location pull down menu button 121b. If the user clicks on the shipping
12 location pull down menu button 121b, the System will display a selection menu of possible
13 shipping locations. Example shipping location selection options include: self-service
14 center/drop box; staffed shipping counter; my location by calling for pickup; my location
15 through regular pickup; and my local Mail Boxes Etc. center. Exemplary shipping location
16 options are described further below with regard to FIG. 26.

17 If the User selects the "my local Mail Boxes Etc. center" then a Locations screen is
18 displayed. FIG. 14 is a graphic representation depicting an exemplary embodiment of a
19 Locations screen. The Locations screen displays a Locations button 126, that when clicked,
20 causes the System to display a list 127 of Mail Boxes Etc. centers in the area in and around
21 the User's zip code. Each entry in the list 127 contains the name and address of the location
22 128, pickup times 129, and comments 130. The User will be asked to highlight and thereby
23 select one of the centers. According to the User's selection, the System will display
24 additional comments if appropriate, e.g., 131. Otherwise, for the other shipping location
25 selection options, the User is required to enter the city, state, and zip code of the location.

26 FIG. 15 depicts an alternative exemplary embodiment of a Locations screen as a
27 screen inset. If the Shipper selects a particular "ship center" type from a shipping location pull
28 down menu (not shown) as the shipping location, the User Interface will display, as shown in
29 FIG. 15, three elements: 1) a table 1058 with the Location Address, Pickup Times and

1 Comments Area; 2) a Browse button 1059; and 3) a destination Zip Code field 1042. Clicking
2 the Browse button 1059 will display additional Drop Off Locations in a Pop-up window (not
3 shown).

4 Returning to FIG. 14, if the User clicks the Next button 102, and if the data entered in
5 the Shipping Locations screen is successfully validated, the System displays the next screen,
6 which in this case is the UPS registration screen 44 as depicted in FIG. 10a. FIG. 16 is a
7 graphic representation of an exemplary embodiment of a UPS registration screen 44. If the
8 User indicates that the User will ship through the System using UPS and that the User already
9 has a UPS account 140, the User will be asked to provide the UPS account number 141 and
10 the scheduled pickup time 142a, a.m. 142b, and p.m. 142c. The System provides the User
11 with other UPS shipping options, such as dropping the UPS shipments at a shipping center
12 such as a Mail Boxes Etc 143, or not using the System for shipping UPS 144. Depending on
13 the User's selection, the System provides appropriate special circumstance notification 145 if
14 required.

15 If User clicks the Next button 102, and if the data entered in the UPS registration
16 screen is successfully validated, the System displays the next screen, which in this case is the
17 eCommerce registration introduction screen 45 as depicted in FIG. 10a. FIG. 17 is a graphic
18 representation of an exemplary embodiment of an eCommerce registration introduction
19 screen 45. The eCommerce registration introduction screen 45 provides a textual description
20 150 of the procedure to setup selling preferences for eCommerce transactions.

21 If the user clicks the Finish button 152 on the eCommerce registration introduction
22 screen 45, the System finalizes the registration process 46 and sends the User to a registration
23 complete screen 48a as depicted in FIGS. 10a and 10b. FIG. 10b depicts
24 eCommerce/eAuction Seller registration procedures, including the Creation of a Link that the
25 Seller can copy and paste in the Seller's Web page description of the item to be sold/shipped.

26 FIG. 18 is a graphic representation of a registration complete screen 48a. The System
27 informs the User that the User is registered 153 and that the User's ID and password will be
28 e-mailed to the User 154. The System summarizes the registration information for the User
29 155 and instructs the User 156 to click on the Close button 157 to log on to the System for the

1 first time. If the User clicks on the Close button 157 and logs on to the system, a Welcome
2 screen, e.g., 48b as depicted in FIG. 10b, is displayed from which the User can request that a
3 Seller's Link be created.

4 If the user clicks the Continue button 151 on the eCommerce registration introduction
5 screen 45, the System will display 47 the next screen, which is an eCommerce registration
6 screen 49 as depicted in FIGS. 10a and 10b.

7 FIG. 19 is a graphic representation of an exemplary embodiment of the Seller's
8 Carrier/Service Preferences Screen 49 as depicted in FIG. 10b. With the Seller's
9 Carrier/Service Preferences Screen 49, the System requests 159 the User to identify the
10 Carriers and the Services of each Carrier that the User is willing to allow Buyers/Bidders to
11 choose for shipping the item(s) to be shipped. Each supported Carrier, e.g., Airborne Express
12 160, FedEx 162, UPS 164, and USPS 166 is available for selection by the User. Further, each
13 service offered by a particular Carrier is also available for User selection. For example, for
14 Airborne Express, Overnight Air Express 161a, Next Afternoon Service 161b, and Second
15 Day Service 161c are available for User selection. The User selects a Carrier or a service by
16 clicking on the selection button, e.g., 160.

17 FIG. 20 is a graphic representation of an alternative embodiment of the Seller's
18 Carrier/Service Preferences Screen 49. In the example depicted in FIG. 20, the User has
19 selected all Carriers and all services for all Carriers.

20 If the User clicks the Next button 102 on the Seller's Carrier/Service Preferences
21 Screen 49, the System will display the next screen, which is Seller's Charges and Payment
22 Preferences Screen 50 as depicted in FIG. 10b. FIG. 21 is a graphic representation of an
23 exemplary embodiment of a Seller's Charges and Payment Preferences Screen 50. The
24 System asks the User to select a format for presentation of shipping charges to the
25 Buyer/Bidder 169. The User can select any one of the following choices: 1) the item cost
26 includes shipping charges 170; 2) buyer pays actual shipping charges 171; or 3) buyer pays
27 shipping plus additional charges 172.

28 If the User chooses the option that the buyer pays shipping charges plus additional
29 charges, then the User must select the types of additional charges that apply, and the value to

1 be added: 1) add percentage of shipping cost 173 and specify percentage 174; 2) add fixed
2 handling charge 175 and specify the amount of the handling charge 176; and/or 3) add System
3 Service Fee 177.

4 The System also requires that the User select at least one payment method: Visa 179a,
5 American Express 179b, Personal Check 179c, Cashier's Check 179d, MasterCard 179e,
6 Discover 179f, and/or Money Order 179g. The User is also given the option of requesting
7 that the System collect credit card information and provide the information to the User so that
8 the User can process the information 180.

9 If the User clicks the Finish button 152 on the Seller's Charges and Payment
10 Preferences Screen 50, then the System will display the Registration Completion Screen 48a
11 previously described above.

12 FIG. 22 is a graphic representation of an alternative embodiment of the Seller's
13 Charges and Payment Preferences Screen 50 depicting User selections of some of the
14 available options. If the User clicks the Save button 181, the System validates the
15 information, saves the User's choices and specifications, and completes the registration
16 process.

17 Similarly, with respect to FIG. 21, if the user clicks the Finish button 152 on the
18 Seller's Charges and Payment Preferences Screen 50, the System finalizes the registration
19 process and displays the registration complete screen 48a as depicted in FIG. 10b. As was
20 previously described above, in the registration complete screen 48a, the System summarizes
21 the registration information for the User 155 and instructs the User 156 to click on the Close
22 button 157 to log on to the System for the first time. If the User clicks on the Close button
23 157 and logs on to the system, a Welcome screen, e.g., 48b as depicted in FIG. 10b, is
24 displayed from which the User can request that a Seller's Link be created.

25 FIG. 23 is a System interactivity data and logic flow diagram depicting an exemplary
26 embodiment of the Seller's eCommerce Registration process. FIG. 23 depicts the interactivity
27 between the User's client machine (Seller's computer) 8 and the System's server computers
28 20a-21z. Also depicted are the data accesses to the System database 22. An arrow 230
29 extending from the top of the diagram and pointing down towards the bottom of the figure

1 graphically represents the passage of time.

2 As depicted in FIG. 23, the Seller clicks on the Pricing Preferences submenu option
3 231 (equivalent to 31b-1 as depicted in FIG. 24 under the Sell It option 31a of the main menu
4 34 as depicted in FIG. 9). The System servers 20a-20n then access the System database 22 to
5 determine whether the Seller's preferences have previously been set 232. In the case that no
6 preferences are found for the specified Seller 233, the System servers 21a-21z generate the
7 signals necessary to display the Carriers and Services Screen 234 to the Seller's computer 8.
8 The Seller selects the Seller's preferred Carriers and Services and clicks the Next button 235
9 returning control to the System servers 21a-21z. The System servers 21a-21z next generate
10 the signals necessary to display the Charges and Payment screen 236 to the Seller's computer
11 8. The Seller selects the Charges and Payment options and clicks the Save button 237. The
12 System servers 21a-21z validate the Seller preference information and the System servers
13 20a-20n store the information on the System database 22. The System servers generate the
14 signals necessary to notify the Seller at the Seller's computer 8 that the Seller's preferences
15 have been saved 239.

16 There are different ways by which a User can request the System to create a Seller's
17 Link. One way is for the User to enter the System's home page, log in 48b, e.g., as depicted
18 in FIG. 10b, and click on the Sell It 31a, or equivalent, application on the main selection bar
19 34 as depicted in FIG. 9. Another way is to click on the System logo icon as provided in an
20 eCommerce/eAuction Provider's web site. There are other ways that a User can enter the
21 System. For instance, the eCommerce/eAuction Provider might provide a hyperlink to the
22 System web site.

23 If the User enters the System Web site, and clicks on the Sell It selection 31a, the
24 System presents either a submenu such as 31b as depicted in FIG. 9, or displays a default first
25 screen in the Sell It application, depending on the embodiment.

26 If the User has not completely registered for the System and for eCommerce shipping
27 processing, then the System prompts the User to complete the necessary registration process
28 by displaying a Registration Needs Completion screen 51 as depicted in FIG. 10b.

29 FIG. 24 is a graphic representation of a Registration Needs Completion Screen 51.

1 Similar to the screen depicted in FIG. 17, the System requests the User to provide the
2 necessary information by completing the information requested in subsequent screens 150-1.
3 If the User clicks the Next button 102, the System displays the Seller's Carrier/Service
4 Preferences Screen 49, and the Seller's Charges and Payment Preferences Screen 50 as
5 depicted in FIG. 10b.

6 Once the User has completed registration for the System and for eCommerce shipping
7 processing, the System allows the User to select the Create Link submenu option 31b-2 in the
8 Sell It Application 31a of the System. If the User selects the Create Link option 31b-2, the
9 System displays a Create a Seller's Link Screen 52 as depicted in FIG. 10b. FIG. 25 is a
10 graphic representation of an exemplary embodiment of a Create a Seller's Link Screen 52.

11 Before the System can create a Seller's link, the User must tell the System information
12 about the particular package that will be shipped. Accordingly, as depicted in FIG. 25, the
13 System asks the User to enter the shipping weight and value of the item to be shipped 190.
14 The User is asked to enter the Shipping Weight 191a.

15 FIG. 26 depicts an exemplary alternative embodiment of a screen for the input of
16 Shipper Parcel Specifications, which in the exemplary alternative embodiment depicted is
17 titled the Location and Package Screen. The Location and Package Screen depicted in FIG. 26
18 collects Shipper input similar to a portion of the information that which was described in
19 connection with FIGS. 13 and 25.

20 As shown in FIG. 26, the Shipper is asked to input the location 1040 from which the
21 parcel will be shipped. A pull down menu activation mechanism 1041 is provided to allow
22 the user to pull down a menu (not shown) of different shipping locations. It should be noted
23 that the exemplary selection mechanisms, e.g., "pull down menu", "drop down selection", and
24 others, described herein are used for illustrative purposes and are not a limitation of the
25 invention.

26 The Shipper activates the pull down menu by placing the cursor of the Shipper's PC
27 over the pull down menu activation mechanism 1041 and leaving the cursor in the same
28 position for a certain period of time (this method of activating a selection mechanism will be
29 referred to herein as a "Pause Activation"). In alternative embodiments, the Shipper activates

1 the pull down menu by placing the cursor of the Shipper's PC over the pull down menu
2 activation mechanism 1041 and clicking the Shipper's user input device (this method of
3 activating a selection mechanism will be referred to herein as a "Click Activation"). It should
4 be understood that for each activation mechanism depicted in the User Interface of the Present
5 Invention, that the exemplary embodiments of the User Interface depicted herein use the
6 Pause Activation method; alternative embodiments use the Click Activation method.

7 References herein to "clicking" mean that the Shipper places the cursor of the
8 Shipper's PC on the subject item and clicks the Shipper's user input device.

9 If the Shipper activates the pull down menu activation mechanism 1041, a menu of
10 different shipping locations (not shown) appears in the Location area 1074 of the screen. The
11 Shipper then selects one of the shipping locations by placing the cursor of the Shipper's PC
12 over a particular shipping location in the shipping location menu and clicking the Shipper's
13 user input device, e.g., mouse.

14 It should be understood that for each selection mechanism depicted in the exemplary
15 embodiments of the invention, selection of a particular choice from such a selection menu is
16 made by the Shipper clicking the Shipper's user input device.

17 There are two types of shipping locations, ship centers and customer drop offs. Ship
18 centers are those locations which refer to a database of specific locations, from which a
19 specific location from the available locations must be selected to determine rates, such as an
20 "iShip Center". Customer drop offs are those shipping locations from which a specific
21 location need not be selected to determine rates, such as a "drop box", "carrier counter" or
22 "call for pickup". The shipping location pull down menu displays each shipping location
23 category, e.g., iShip Center, other specific shipping center types, drop box, carrier counter,
24 call for pickup, etc.

25 As was described with regard to FIG. 15 above, if the Shipper selects a particular
26 "ship center" type from the shipping location pull down menu (not shown) as the shipping
27 location, the User Interface will display, as shown in FIG. 15, three elements: 1) a table 1058
28 with the Location Address, Pickup Times and Comments Area; 2) a Browse button 1059; and
29 3) a destination Zip Code field 1042. Clicking the Browse button 1059 will display additional

1 Drop Off Locations in a Pop-up window (not shown).

2 Returning to FIG. 26, if the Shipper selects a "customer drop off" as the shipping
3 location, the User Interface will display, as shown in FIG. 26, two elements: 1) Origin Zip
4 Code Field 1053; and 2) Destination Zip Code Field 1042.

5 For either class of shipping location, if an iShip Shipping Station will not be present at
6 the selected shipping location, the System displays a notice (not shown) to the customer
7 telling them that they must have a laser printer to ship using the specified location.

8 If the Shipper is Logged On to the System and has established an account, the System
9 will default the Shipping Location to the Shipper's specified Preferences which the Shipper
10 inputs (not shown) the first time that the Shipper logs into the System. If the Shipper's
11 specified Preference is a "customer drop off" location, the System populates the Origin Zip
12 Code with the Shipper's default Zip Code which the Shipper inputs (not shown) the first time
13 that the Shipper logs into the System.

14 If no location is selected by the Shipper, the System displays a message (not shown)
15 asking the Shipper to select a shipping location.

16 In the Package area 1075 of the screen depicted in FIG. 26 there are the following
17 controls or control groups: 1) "Packaging" which includes various types of parcel packaging ,
18 as shown in item numbers 1043-1047 and includes Length 1048, Width 1050 and Height
19 1049 which are required data fields for parcels designated by the Shipper as the type "Other
20 Packaging"; 2) Weight 1051 (If the Shipper specifies one of the recognized carrier packaging
21 types (Letter, Pak, Box, Tube) the field will be auto filled with "letter", "pak", etc.); and 3)
22 additional handling 1052. If "Letter" is selected the weight will be set by the System to 0.5
23 lbs. Otherwise, weight may be input by the Shipper (612, FIG. 27a) using a user input device
24 such as a keyboard, with weights ranging from 1 to 150 lbs. If a specific weight is selected or
25 input, the Packaging Type will be set to Carrier Box.

26 In order to identify the weight of the parcel to the System, in one embodiment of the
27 invention, the Shipper's PC is configured with a scale and the System communicates with the
28 Shipper's scale using the user's client web browser. FIGS. 27a through 27c depict the logic
29 flow for communications between the System and a Shipper's PC and a scale configured with

1 the Shipper's PC. As depicted in FIGS. 27a through 27c, the Shipper establishes in the
2 System certain information about the Shipper's PC configuration at the time the Shipper sets
3 up an Account 601. If the Shipper's PC is configured with a scale, the Shipper specifies scale
4 configuration information 602 such as: the make and model of scale, and the type of port
5 (e.g., serial or parallel) with which the scale is configured with the PC. Further, the System
6 provides storage and access 603 for the Shipper's scale configuration information in a
7 database 604.

8 Continuing with FIGS. 27a through 27c, the System supports various makes and
9 models of scales. Each scale make and model has a set of features and requirements for which
10 the System must be programmed in order for the System to communicate properly with each
11 particular scale. The System provides an ActiveX control dedicated to communications with
12 peripheral devices configured with client PCs ("Shipping Station ActiveX Control") 607.
13 Contained within the Shipping Station ActiveX Control is a table (the "scale table") 608
14 containing entries for each supported scale make and model and provides logic to process the
15 communication information for each scale make and model as appropriate. It should be
16 understood by someone skilled in the art that the Shipping Station ActiveX Control facilitates
17 communications with various devices on the client machine. The Shipping Station ActiveX
18 Control 607 and the scale table 608 are requested 606 by the web page (the "System/scale
19 interface") containing the Weight field 1051 at the time that the Shipper activates 605 the
20 Weight field 1051. Once the web page requests the Shipping Station ActiveX Control 607,
21 the Shipping Station ActiveX Control 607 is automatically installed on the client 609. In the
22 event that the Shipping Station ActiveX Control is updated to facilitate the support of
23 additional scale makes and models, the Shipping Station ActiveX Control is automatically
24 reinstalled on the particular client PC the next time that the Shipper activates the Shipping
25 Station ActiveX Control.

26 Continuing with FIGS. 27a through 27c, the Shipper places 610 the Subject Parcel on
27 the scale, such as, e.g., the scale 1024a depicted in FIG. 4, and 1024n depicted in FIG. 7. The
28 Shipper activates the Shipping Station ActiveX Control by placing the cursor of the Shipper's
29 PC on the Weight field 1051 (such as the Weight field 1051 depicted in FIGS. 15 and 26).

1 The System checks the Shipper's scale configuration information to determine 611 whether
2 the Shipper's PC is configured with a scale. If so, the System activates the System/scale
3 interface 613. Otherwise, the user may input the weight 613 in the Weight field 1051 as
4 depicted in e.g., FIG. 26.

5 In one embodiment of the System/scale interface aspect of the invention, the System
6 uses ActiveX control language and the client's web browser, such as Internet Explorer
7 browser. Continuing with FIGS. 27a through 27c , using the Shipper's scale configuration
8 information, the System calls Windows libraries 615 to open the serial or parallel port with
9 which the scale is configured, as the case may be and as is specified in the Shipper's scale
10 configuration information. Windows is an operating system used with most PCs.

11 Continuing with FIGS. 27a through 27c , the System uses the information for the
12 particular scale make and model from the scale table 608 of scale makes and models to send a
13 communication query to the particular scale 616. Typically, the communication query
14 information required by a particular scale make and model is a particular set of characters.
15 Each scale make and model recognizes a unique set of characters as a request for a weight.
16 Accordingly, the appropriate set of characters that means a request for weight to a particular
17 scale make and model is stored in the scale table for a particular scale make and model.

18 Continuing with FIGS. 27a through 27c, after a proper query, a scale will return a data
19 stream containing the weight of the parcel 617. Depending on the scale make and model,
20 other types of information may be contained in the return data stream. The System accesses
21 the scale table 608 to interpret 618 the return data stream according to the scale make and
22 model rules as stored in the scale table and as programmed in the Shipping Station ActiveX
23 Control.

24 Other scale communication information is contained in the scale table for each scale
25 make and model, including, for example: the character string that communicates a request as
26 to whether or not the weight is stabilized; the default contents of the return data stream of the
27 weight from a particular scale make and model; and the character string to request that the
28 scale send the weight mode with the return data stream. Weight mode is the mode with which
29 the scale measures weight (e.g., pounds, kilograms, etc.).

1 In one embodiment, as long as the Shipper's cursor remains on the Weight field 1051
2 (such as the Weight field 1051 depicted in FIGS. 15 and 26), the System polls the scale
3 repeatedly requesting the weight and requesting notification that the weight is stabilized 619.
4 Each time the System polls the scale, the System tests to determine 620 whether or not there
5 is a difference in the weight as compared with the last time that the System polled the scale.
6 If the System determines a difference in weight, then the System uses the Shipping Station
7 ActiveX Control to fire an event 621 to the client web browser to display on the User
8 Interface screen that the weight has changed.

9 In one embodiment, once the Shipper removes the cursor from the Weight field 1051,
10 the System stops polling the scale 622. If prior to the last polling to the scale, the scale
11 notifies the System that the weight has stabilized 623, the System will proceed with preparing
12 the Graphic Array if requested to do so by the Shipper 625. Otherwise, if the System
13 determines a difference in weight, the System notifies the Shipper that the weight is not stable
14 624.

15 The Shipper can use the Shipper's input device connected to the Shipper's PC, such as
16 a mouse 12a, as depicted in FIG. 4, to position the cursor on one of the navigational buttons
17 102-105 shown at the bottom of the screen as depicted in FIG. 26 described above. If the
18 Shipper clicks the "Next" button 102, the System will display the next Screen, which, in the
19 embodiment depicted, is the Rates and Times Screen (an exemplary embodiment of which is
20 depicted in FIG. 36a described below). If the Shipper clicks the "Reset" button 103, the
21 System will clear the values displayed on the current screen. If the Shipper clicks the
22 "Cancel" button 104, the System will cancel the Shipper's Parcel Specifications and the
23 Shipper's service request. If the Shipper clicks the "Help" button 105, the System will
24 display help text to explain to the Shipper the appropriate possible actions.

25 Returning to FIG. 25, Shipping Weight can be input by clicking the Shipping Weight
26 pull down menu button 191b which will cause a display of commonly selected weights, such
27 as "Letter - 0.5 lbs" and weights from 1 to 150 lbs. Alternatively, in one exemplary
28 embodiment, the User inputs the weight of the package by placing the actual package on a
29 scale that is configured with the User's computer and with which the System is programmed

1 to interact as disclosed above

2 The User is also asked to identify whether the item is irregular or requires non-
3 standard packaging 192. Regarding Loss Protection, the default is Basic Coverage 193. If
4 the User instead selects Declared Value 194, the User is required to enter a value 195 greater
5 than \$0.00 and less than or equal to \$50,000.00.

6 Once the User has entered the package specific information 191a-195, as described
7 above, the User can request the System to preview the shipping charges that will be presented
8 to a Buyer/Bidder. To do so, the User may either: 1) choose an example destination 196a and
9 uses the destination pull down menu button 196c to select a sample destination city 196b
10 from a list of cities; or 2) choose to enter an example zip code 197a by entering a sample zip
11 code 197b. Then the user clicks the Preview button 198 to display the sample charges. If a
12 sample destination city was selected from the pull down list of cities, once the User clicks the
13 Preview button 198, the System identifies the appropriate zip code for the selected city and
14 moves that zip code into the Destination Zip code field 197b.

15 FIG. 28 depicts an exemplary further supplemental Shipper Parcel Specification
16 Screen such as in a simplified Internet embodiment of the invention, which in the
17 embodiment depicted is titled the Service Options Screen. The Service Options Screen
18 provides for Shipper input of Service Option Selections and displays a Single Day Rate
19 Graphic Array. The Service Options supported in the depicted embodiment are: 1) Loss
20 Protection (Declared Value) 1076; 2) E-Mail Delivery Notification 1083; 3) Verbal Delivery
21 Confirmation 1085; 4) "Service must be guaranteed" 1086; 5) "Destination is a Residence"
22 1087; and 6) "Signature not Required" 1088. Selection of an option on the screen depicted in
23 FIG. 28 is accomplished by the Shipper placing the cursor on the option selection mechanism
24 and clicking the Shipper's user input device.

25 With respect to the Loss Protection (Declared Value) Service Option, if the Shipper
26 selects the Declared Value Option 1081, the Shipper must enter a value 1082 of greater than
27 \$100.00, and equal to or less than \$50,000.00. The default for Loss Protection is "Basic
28 Coverage" 1080 which provides automatic coverage for the first \$100.00 of Declared Value
29 If the Declared Value option 1081 is selected and a value 1082 entered, the System will

1 update the Single Day Rate Graphic Array 1096 with changes for each individual Carrier's
2 rates, e.g., 1097.

3 It should be noted that the Carrier Rules described herein, such as in the case of the
4 defaults, threshold values, and the like concerning Loss Protection, are contained in the
5 Carrier Rules database (e.g., 1404a through 1404n as depicted in FIG. 38), and for special
6 cases, are programmed as part of the System. Carrier Rules vary from Carrier to Carrier;
7 Carrier Rules are subject to change. The Carrier Rules described herein are therefore not a
8 limitation of the invention.

9 With respect to the E-Mail Delivery Notification Option, two controls are provided - a
10 checkbox 1083 and an "E-Mail Others" button 1084. If the E-Mail Delivery Notification
11 Option checkbox 1083 is checked the rates, such as those displayed in the Single Day Rate
12 Graphic Array 1096, will be updated to reflect each Carrier's charges for the provision of E-
13 Mail Notification services. If Shipper clicks the "E-Mail Others" button 1084, the following
14 will occur: 1) If the checkbox 1083 has not already been checked, it will be checked by the
15 System; and 2) an "E-Mail Others" pop-up window will be displayed by the System as
16 depicted in FIG. 60 and described below.

17 With respect to the Verbal Delivery Confirmation Option, if the Verbal Delivery
18 Confirmation Option checkbox 1085 is checked, the rates, such as those displayed in the
19 Single Day Rate Graphic Array 1096, will be updated to reflect each Carrier's charges for the
20 provision of Verbal Delivery Confirmation services. If the Verbal Delivery Confirmation
21 Option checkbox 1085 is checked, the System will use the Shipper's Return Address Phone
22 and Name as supplied by the Shipper during Account setup (not shown), as the information to
23 be supplied to UPS.

24 With respect to the "Service must be guaranteed" Option, if the "Service must be
25 guaranteed" Option checkbox 1086 is checked, the rates and Carrier/Service cells, such as
26 those displayed in the Single Day Rate Graphic Array 1096, will be updated to remove any
27 Carrier/Service cell for which service is not guaranteed.

28 With respect to the "Destination is a Residence" Option, if the "Destination is a
29 Residence" Option checkbox 1087 is checked, the rates and Carrier/Service cells, such as

1 those displayed in the Single Day Rate Graphic Array 1096, will be updated to remove any
2 Carrier/Service cell which does not provide service to Residence Destinations.

3 With respect to the “Signature not Required” Option, in the embodiment depicted in
4 FIG. 28, if the “Signature not Required” Option checkbox 1088 is checked, no change will be
5 applied to the rate graphic. In the embodiment depicted in FIG. 28, the “Signature not
6 Required” Option is a FedEx only flag and does not effect any other Carrier or any Carrier
7 rate.

8 The Single Day Rate Graphic Array as displayed in FIG. 28 is similar to the Graphic
9 Array described below as depicted in FIG. 36a in that the Single Day Rate Graphic Array is
10 dynamically dimensioned and reflects the Carriers that provide the delivery service requested
11 by the Shipper for a particular Subject Parcel. As with the Graphic Array, the embodiment of
12 the Single Day Rate Graphic Array depicted in FIG. 28 uses a color-coded legend 1091 and
13 color to distinguish the rates for each Carrier from the rates for the other Carriers.

14 The Single Day Rate Graphic Array contains a number of elements. First, the selected
15 delivery date 1090 is displayed at the top of Single Day Rate Graphic Array. The displayed
16 date is bordered on the left 1098 and right 1099 with arrow buttons. If the Shipper clicks the
17 left arrow button 1098, the date will go back one valid delivery date. If the Shipper clicks the
18 right arrow button 1099, the date will move forward one valid delivery date. The range of
19 valid delivery dates is determined by the System according to the Expected Ship Date
20 (element 1060 as depicted in FIG. 36a).

21 Sorted, valid delivery times 1093-1 through 1093-5 for all valid dates are displayed
22 down the left side of the Single Day Rate Graphic Array. Above the delivery times are up
23 and down arrow buttons 1100a and 1100b respectively. If an up or down arrow button (1100a
24 and 1100b respectively) is pressed, the list of available times 1093-1 through 1093-5 will
25 scroll up or down appropriately, if and only if the list exceeds the Single Day Rate Graphic
26 Array display area 1096.

27 A Ship Location Type field 1066 and Ship Location drop down menu activator 1067,
28 are displayed below the Single Day Rate Graphic Array and operate in a manner as described
29 in FIG. 36a. If the Shipper changes the Ship Location selection, the System will update the

1 Single Day Rate Graphic Array to reflect any rate changes or surcharges that result from the
2 change.

3 As with the Rates and Times Screen (described below as depicted in FIG. 36a), the
4 Single Day Rate Graphic Array is color coded by Carrier in a color-coding legend 1091 - that
5 is, a distinct color is visually depicted in a legend as corresponding to each respective Carrier.
6 Carrier cell entries, e.g., 1097, for each Carrier are presented in a color-coded display of the
7 available rate, by date and time.

8 As depicted in FIG. 28, the color for the Carrier identified as "Airborne" 1140b is
9 depicted in the color coding legend 1091 with a right-diagonal cross-hatch symbol 1140a.
10 Accordingly, each Carrier cell entry, e.g., 1097, contained within the Single Day Graphic
11 Array with a particular distinct color, in this case depicted with the right-diagonal cross-hatch
12 symbol 1140a, corresponds to a delivery of the Subject Parcel supported by the Carrier
13 "Airborne" 1140b.

14 Each Carrier cell entry, e.g., 1097, contains a graphic element, e.g., 1097a, which
15 contains what is known as "ALT text". A Shipper viewing the Single Day Rate Graphic
16 Array online can place the PC's cursor on the graphic element, e.g., 1097a of a particular
17 Carrier cell entry, e.g., 1097, to display a pop-up screen (not shown) that displays the ALT
18 text for that particular Carrier cell entry. The ALT text contains information about the
19 Carrier, as described in FIG. 36a, such as the full Carrier name and the full Carrier service
20 name. The contents of the ALT text described herein is exemplary and is not a limitation of
21 the invention.

22 Appearing in each of each of the color-coded Carrier cell entries is a monetary value,
23 e.g., 1097b, of the price that the corresponding Carrier would charge to deliver the Subject
24 Parcel according to the time and date specified. For example, as depicted in FIG. 28, the
25 Carrier cell entry 1097, depicted with the right-diagonal cross-hatch symbol 1140a, contains
26 the amount \$9.00 (1097b). Accordingly, the amount \$9.00 (1097b) is the price that the
27 Carrier Airborne would charge to deliver the Subject Parcel at the identified time of 12:00
28 p.m. 1093-3 on the identified date of Monday, September 28, 1999 1090.

29 Similarly, as depicted in FIG. 28, the color for the Carrier identified as "FedEx" 1141b

1 is depicted in the color coding legend 1091 with a left-diagonal cross-hatch symbol 1141a.
2 Accordingly, each Carrier cell entry contained within the Graphic Array with the left-diagonal
3 cross-hatch symbol, e.g., 1107, corresponds to a delivery of the Subject Parcel supported by
4 the Carrier “FedEx.”

5 Further, as depicted in FIG. 28, the color for the Carrier identified as “UPS” 1142b is
6 depicted in the color coding legend 1091 with a vertical cross-hatch symbol 1142a.
7 Accordingly, each Carrier cell entry contained within the Graphic Array with the vertical
8 cross-hatch symbol, e.g., 1108, corresponds to a delivery of the Subject Parcel supported by
9 the Carrier “UPS.”

10 In the embodiment of the Service Options Screen depicted in FIG. 28, the navigational
11 buttons operate much the same as has been previously described except that clicking the
12 “Back” button 117 will display the previous screen, which in the embodiment depicted is the
13 Rates and Times Screen (FIG. 36a); clicking the “Next” button 102 will display the next
14 screen, which in the embodiment depicted is the Summary Screen (FIG. 48). The Shipper
15 must select a Carrier cell entry before the System will display the Summary Screen. To select
16 a Carrier cell entry, the Shipper places the cursor over the entry and clicks the user input
17 device. In an alternative embodiment, the Shipper double clicks a Carrier cell entry to select
18 the entry. Clicking the Reset button 103 will clear all fields in the Service Option Screen
19 depicted in FIG. 28 and return the display of the Location and Package Screen (as described
20 above with regard to FIGS. 15 and 26).

21 Returning to FIG. 25, once the User is satisfied with the previewed charges, the User
22 can create a Seller’s link. To do so, the User must choose the type of Link, HTML 199 or
23 Web Address only 200, enter the Link Text 201 that will be displayed, and click the Go
24 button 202.

25 Once the User clicks on the “Go” button 202, the System generates an HTML
26 hyperlink and moves the HTML hyperlink in the “Link” box 203a. If the HTML hyperlink
27 text exceeds the space available on the Create a Seller’s Link Screen, the User can click on
28 the up and down scroll buttons, 203b1 and 203b2 respectively.

29 FIG. 30 depicts an exemplary alternative embodiment of the Create a Seller’s Link

1 screen. In this embodiment, the System collects the package specific information when the
2 Seller enters the System and then presents the screen as depicted in FIG. 30 to display the
3 generated hyperlink.

4 On the Seller's Link Screen depicted in FIG. 30, an Affiliate's Logo 215 is displayed.
5 The Affiliate's Logo 215 represents the logo of an affiliated eCommerce/eAuction provider.
6 When Affiliate co-branding is desired, an affiliate identifier is appended to the end of the
7 URL that refers to the Sell It application as that URL is provided in the affiliate Provider's
8 Web site. An affiliate identifier is an account number that begins with the prefix "AFF".
9 When a Seller clicks on a logo or hyperlink for the System that has an affiliate identifier, the
10 affiliate identifier is sent to the System with the hyperlink. If the System receives an affiliate
11 identifier in a hyperlink, the System accesses the System database 22 as depicted in FIG. 5,
12 retrieves the affiliate's logo and color scheme, and uses the affiliate's logo, page element
13 specifications, and color scheme to alter page elements of the System screens.

14 In one embodiment, the System generates an HTML hyperlink by executing a JAVA
15 script routine (in alternative embodiments, other scripts are used). The JAVA routine extracts
16 the Seller's package-specific information from the Create a Seller's Link HTML page (i.e.,
17 Weight, Irregular or Non-Standard Packaging, Loss Protection, Destination Zip code, Link
18 Type and Link Text) and integrates the information with a URL (Universal Resource Locator)
19 that points to the address at which a System web page exists, or a series of System web pages
20 exist, that will display shipping cost comparisons for a Buyer/Bidder. In one embodiment,
21 the URL information is hard coded in the web page. The hyperlink built by the System
22 contains data as well as an address. In an alternative embodiment, the URL is dynamically
23 generated.

24 In order to create the Link, the System places the appropriate HTML tags and text in a
25 sequence that can be rendered by a web browser. An example of a hypertext link, like the one
26 generated in FIGS. 25 and 29, that the "Create Link" application creates is depicted in FIG.
27 31. Some of the text of the Link (a hyperlink) depicted in FIG. 31 is a template. However,
28 several components are customized according to the Seller's and the specific item's
29 information. For instance, the example hyperlink depicted in FIG. 31 contains a variable data

1 item named "K" 210-1 which is set equal to the account number 210-2 ("A6V1XZ" in this
2 case) of the Seller's account 210. The example hyperlink depicted in FIG. 31 also contains a
3 variable named "W" which is set equal to the weight in pounds of the package to be shipped
4 (in this case "10") 211; a variable named "V" set equal to the declared value for loss
5 protection of the package (in this case "0") 212; and a variable named "H" which is set equal
6 to an indicator, which if set to "1", the package has irregular or non-standard packaging, if set
7 to "0" (as in this case"), the package is regular with standard packaging 213.

8 After the System generates the HTML hyperlink, the Seller can copy the HTML
9 hyperlink text 203a as depicted in FIG. 30 using generally available text editing features such
10 as click, drag and copy. The Seller then returns to the Seller's web site or to the
11 eCommerce/eAuction Provider's from which the Seller entered the System and paste the Link
12 text in the Seller's eCommerce/eAuction item description.

13 The Buyer's/Bidder's experience is described in detail below. However, for purposes
14 of describing the Seller's Link, when the Buyer/Bidder clicks on the Seller's Link in the
15 Seller's web page, the Buyer's/Bidder's Web Browser will use the URL to locate the System
16 Web page that is addressed by the Link. The System will be presented with and receive as
17 input the information in the hypertext link, including the variables and their respective
18 contents as described above 210-213 in connection with FIG. 31.

19 With the Seller's account number 210, the System accesses the System database 22 as
20 depicted in FIG. 5 and retrieves the following types of information about the Seller: 1)
21 Package origin address; 2) Carriers and services that the Seller has chosen to use; 3) Custom
22 and public carrier rates the Seller can use; 4) Additional handling charges that the Seller
23 wants to imposes; and 5) Payment methods the Seller will allow the buyer to use. This type
24 of information was collected by the System during the Seller's Registration process as was
25 described above (e.g., in connection with FIGS. 9-14, 16-25).

26 With the Seller's information as collected through the Registration process and with
27 the package specific information as provided by the hyperlink Seller's Link, the System, at
28 the address provided by the URL, is programmed to interact with the Buyer, as will be
29 described in detail below, to facilitate shipping of the package, payment information

1 collection, and depending upon the previously provided (during Seller registration)
2 instructions of the Seller, payment processing.

3 FIG. 32 depicts an alternative embodiment of a hyperlink generated by the System.
4 Instead of the hyperlink explicitly containing the Seller's account number 210 and package
5 specific information, e.g., 211-213, as depicted in FIG. 31, the hyperlink depicted in FIG. 32
6 provides a Package Identifier ("PID") 220. A PID hides Seller account information and
7 package specific information from the Buyer/Bidder by replacing the explicit embedded
8 information with a single string of facially meaningless characters. In an embodiment of the
9 System that generates a PID for each package/Seller's Link, every time a Seller creates a
10 URL with a PID, the System creates a new and unique PID. Without access to the iShip
11 database, there is no information in a PID from which to determine a Seller's information.

12 The System stores the PID 220 in a PID table in the System database 22 (such as
13 depicted in FIG. 5) and stores the Seller's account and package specific information, e.g.,
14 210-213 (such as depicted in FIG. 31) with the PID.

15 In another embodiment, the details associated with the Seller's account, such as the
16 Seller's various eCommerce and shipping preferences, are stored in detail with the PID 220.
17 Storing detailed information with a PID 220 provides for additional flexibility in that new
18 Seller information can be associated with the new PID while not influencing a previously
19 generated PID and its associated set of information.

20 FIGS. 33a and 33b represent a database schema diagram that depicts an exemplary
21 embodiment of tables in which data is stored by the System regarding a particular Seller
22 Account, and from which information is retrieved in order to begin the process of presenting
23 to the Buyer/Bidder a shipping cost multi-carrier, multi service comparison Graphic Display,
24 which itself will be discussed in more detail below.

25 As depicted in FIGS. 33a and 33b, the database schema 250 is comprised of an
26 Account User table 251, a Users table 252, an Account User Configuration table 253, a
27 Carrier Account table 254, an Account table 255, an Account and Carrier Account table 256,
28 an Address table 257, a Site Type table 258, an Account and Site Type table 259, an Account
29 and Site table 260, and a Site table 270.

1 The Account table 255 holds, among other things, information about each Seller's
2 account. In preparing the multi-carrier shipping cost comparison Graphic Display, the System
3 accesses the Account table in order to determine whether the Account number 210-2
4 contained in the hyperlink text is a valid Account number 255-1 and in an Active state 255-3.

5 The Account User table 251 is used, among other things, to associate the Seller's
6 account information with the Seller's security and address information. An address pointer
7 251-3 into the Address table 257 is used 257-1 to retrieve the Seller's origin address.

8 The Account User Configuration table 253 contains the Seller's preference settings
9 (not shown) as specified by the Seller. These include Seller's choice of carriers, services,
10 payment options, type of drop-off / pickup option, and any handling charges the Seller wishes
11 to impose on the buyer.

12 The Address table 257 holds all the addresses that are used in System applications. In
13 addition to normal mailing address information, other items stored in this database table
14 include the Seller's e-mail address and phone numbers.

15 The Carrier Account table 254 holds the carrier account information that the System
16 uses when a Seller ships a package. As well, this table 254 contains information for
17 generating each Seller's rates for each carrier.

18 The Account and Carrier Account table 256 ties the carrier accounts 254-1 from the
19 carrier Account table 254 to the Carrier Accounts 256-2 with which the Seller has specified as
20 a preferred Carrier to a particular Seller's account 256-1.

21 The Site Table 270 contains information about drop off and pickup site locations. The
22 Site Type table 258 contains information about each type of site.

23 The Account and Site table 260 relates a particular Seller Account 260-1 to a
24 particular site pointer 260-2 which in turn points to a particular site record 270-1 in the Site
25 table 270.

26 The Account and Site Type table 259 relates a particular Account 259-1 to a particular
27 site type 259-2 which in turn points to a particular site type record 258-1.

28 In one embodiment, once the Seller has decided upon the Seller's preferred options,
29 the information in the Site Type, Account and Site Type, Account and Site and Site tables

1 258-270 are stored in the Account User Configuration table 253.

2 Most eCommerce web sites and eAuction sites allow the Seller to generate a custom
3 Seller's web page for each item being sold. Typically, the Seller's web page utilizes HTML
4 for the layout, and descriptions and pictures of the item sold or auctioned. During the process
5 of establishing an eCommerce/eAuction web page, the Seller utilizes the System to register
6 for the System's shipping management services, to enter the Seller's preferences as described
7 above, and to enter parameters such as, for example, the weight and packaging, loss
8 protection and value of the package, as described above that describe the particular item the
9 Seller is selling/auctioning. The Seller then uses the Create a Seller's Link function of the
10 System to create a hyperlink. The Seller then uses customary edit controls to copy the
11 hyperlink and paste the hyperlink into the description of the item to be sold at the Seller's web
12 site. The result is an HTML hyperlink to view the shipping charges from the auction item
13 description field, an exemplary embodiment of which is depicted in FIG. 34.

14 As depicted in FIG. 34, the exemplary item bidding requirements and circumstances
15 301 are described in the Seller's auction web site page. A description of the item available
16 for bidding is provided 302. The Seller has used the System to copy the hyperlink 203a
17 created by the system into the description 302 of the item. After returning to the Seller's
18 auction web site page describing the particular item, the Seller used customary edit controls to
19 paste the hyperlink into the description 302 of the item 303. The Seller's web site page 53 is
20 depicted in FIG. 10c.

21

22 **D. THE BUYER'S EXPERIENCE IN AN ECOMMERCE EMBODIMENT**

23 In an eCommerce embodiment of the present invention, the Buyer/Bidder enters the
24 Seller's eCommerce/eAuction web site page, such as the one depicted in FIG. 34, and reviews
25 the Seller's description of the item to be sold/auctioned. If the Buyer/Bidder is interested in
26 the item, the Buyer/Bidder may click on the System hyperlink 303 for that Seller's item
27 shipping charges.

28 If the Buyer clicks on the System hyperlink 303, as depicted in FIG. 10c, the
29 Buyer/Bidder enters the System at the URL address supplied by the hyperlink. FIG. 35 is a

1 graphic representation of an exemplary Buyer shipping rating information collection screen
2 that the Buyer would see upon entry into the System. As depicted in FIG. 35, the System
3 displays a Buyer data collection screen 55 (in FIG. 10c) to the Buyer, instructing the Buyer to
4 enter the Buyer's zip code and other options, and to click on the Get Rates button 317 to get a
5 comparison of rates 310. The Buyer enters the deliver-to zip code 311, identifies whether the
6 delivery will be made to a business address 312 or a residence 313, and whether yes 314 or no
7 315 the Buyer wants the selected Carrier/service to guarantee a delivery time. The System
8 instructs the Buyer to click the "Back" button on the Buyer's web browser to return to the
9 Seller's item web site page 316.

10 Once the Buyer has supplied the necessary information, if the Buyer clicks the Get
11 Rates button 317, the System validates the information supplied by the Buyer and then
12 combines the information supplied by the Buyer with the information set for the Seller during
13 the Seller's registration/eCommerce registration and calculates and displays a multi-carrier,
14 multi-service rate and time shipping cost comparison Graphic Array 56 (as depicted in FIG.
15 10c).

16 An exemplary embodiment of a multi-carrier, multi-service rate and time shipping
17 cost comparison Graphic Array in an exemplary simplified Internet embodiment of the
18 invention is depicted in FIG. 36a.

19

20 a) THE GRAPHIC ARRAY DISPLAY

21 FIG. 36a depicts an exemplary Dynamically Dimensioned Multi-Carrier, Multi-
22 Service Graphic Array online display as part of an exemplary supplemental Shipper Parcel
23 Specification Input Screen. FIG. 36a depicts a Graphic Array for an exemplary simplified
24 Internet embodiment. In the embodiment of the Graphic Array depicted in FIG. 36a, the
25 particular screen is titled the Rates and Times Screen.

26 As depicted in FIG. 36a, the exemplary Graphic Array contains the following
27 information and display elements: 1) valid delivery dates 1063 (1063-1 through 1063-3)
28 across the top of the graphic display for the selected Ship Date; 2) sorted, valid delivery times
29 1064 (1064-1 through 1064-6) for all valid dates down the left side of the graphic display; and

1 3) color coded by Carrier, Carrier cell entries, e.g., 1065, for each available rate, by date and
2 time.

3 In the exemplary embodiment depicted in FIG. 36a the Graphic Array comprises an
4 array of intersecting rows and columns. Each column corresponds to a day and date of parcel
5 delivery. In FIG. 36a, the days and dates of delivery shown are "TUE 28 SEP 99" (1063-1),
6 "WED 29 SEP 99" (1063-2) and "THU 30 SEP 99" (1063-3). As depicted in FIG. 36a, space
7 for other columns (1063-4 through 1063-7) are available for display; in the case of the
8 example depicted in FIG. 36a however, no dates are displayed in those columns.

9 Each row of the Graphic Array corresponds to a time of delivery. In FIG. 36a, the
10 times of delivery are shown as "8:00 AM" (1064-1), "10:30 AM" (1064-2), "12:00 PM"
11 (1064-3), "3:00 PM" (1064-4), "4:30 PM" (1064-5), and "5:00 PM" (1064-6).

12 At the intersection of each row (1064-1 through 1064-6) and column (1063-1 through
13 1063-7) of the Graphic Array is a "cell." In FIG. 36a, cells will be referred to by the element
14 1071, and by the intersecting row (1 through 6) and column (1 through 7) the intersection of
15 which forms the space for each cell (1071-1-1, 1071-1-2, . . . 1071-6-7). Some of the cells
16 depicted in FIG. 36a are empty, e.g., 1071-5-1, 1071-6-1, 1071-6-3, 1071-6-4. Empty cells
17 represent the circumstances that none of the Carriers supported by the System (the "supported
18 Carriers") support delivery of the Subject Parcel for the time and date for which that cell
19 represents the intersection.

20 Some cells depicted in FIG. 36a have one or more cell entries. In FIG. 36a, each cell
21 entry represents a particular Carrier. Each Carrier cell entry is color coded with a unique
22 color, the unique color corresponding to a particular Carrier as is discussed in more detail
23 below; each Carrier cell entry contains a graphic element, e.g., 1147a, and a monetary
24 amount, e.g., 1147b, which represents the price for which the corresponding Carrier would
25 deliver the subject parcel. For instance, cell 1071-1-1 contains a single Carrier cell entry
26 1148. Cell 1071-3-1 contains two Carrier cell entries 1065 and 1149.

27 A color-coding legend 1062 is displayed on the Screen to identify by a name (1140b,
28 1141b, 1142b, and 1143b) and a color-coding symbol (1140a, 1141a, 1142a, and 1143a), each
29 of the supported Carriers that provide the service according to the particular Shipper's Parcel

1 Specifications for the particular Subject Parcel.

2 For purposes of this application, unique colors are depicted with graphic symbols. For
3 example, a right-diagonal hash mark symbol 1140a is used herein to represent the color red; a
4 left-diagonal hash mark symbol 1141a is used herein to represent the color purple; a vertical
5 hash mark symbol 1142a is used to represent the color amber; and a horizontal hash mark
6 symbol 1143a is used to represent the color blue. The particular hash mark symbols used
7 herein and the colors mentioned herein are exemplary and are not a limitation of the
8 invention.

9 Each cell of the Graphic Array that is not empty contains one or more color-coded
10 Carrier cell entries. For example, in FIG. 36a, cell 1071-3-1 contains two Carrier cell entries,
11 1065 and 1149. Carrier cell entry 1065 is color-coded with the right-diagonal hash mark
12 symbol (representing the color red) which, according to the color-coding legend 1062,
13 corresponds 1140a with the Carrier identified as “Airborne” 1140b. Carrier cell entry 1149 is
14 color coded with the horizontal hash mark symbol (representing the color purple) which,
15 according to the color-coding legend 1062, corresponds 1143a with the Carrier identified as
16 “USPS” 1143b.

17 Each Carrier cell entry, e.g., 1065, contains a graphic element, e.g., 1065a, which
18 contains what is known as “ALT text”. As depicted in FIG. 36a, a Shipper viewing the
19 Graphic Array online can place the PC’s cursor on the graphic element, e.g., 1065a of a
20 particular Carrier cell entry, e.g., 1065, to display a pop-up screen 1069 that displays the ALT
21 text for that particular Carrier cell entry. In some embodiments, the ALT text will be
22 displayed by merely placing the cursor over the graphic element for a particular Carrier cell
23 entry and leaving the cursor in that position for a certain time interval. In alternative
24 embodiments, the Shipper must click on the graphic element for a particular Carrier cell entry
25 in order to display the ALT text. In the exemplary embodiment depicted in FIG. 36a, the
26 displayed ALT text, e.g., the text displayed in pop-up screen 1069, contains the full Carrier
27 name (in the depicted case, “Airborne Express”) and the full Carrier service name (in the
28 depicted case, “Express Overnight Service”) for the Carrier 1140b (in this case, Airborne) to
29 which that Carrier cell entry corresponds.

1 As depicted in FIG. 36a, the color for the Carrier identified as “Airborne” 1140b is
2 depicted in the color coding legend 1062 with a right-diagonal cross-hatch symbol 1140a.
3 Accordingly, each Carrier cell entry contained within the Graphic Array with the right-
4 diagonal cross-hatch symbol, e.g., 1065, corresponds to a delivery of the Subject Parcel
5 supported by the Carrier “Airborne.” Appearing in each of the color-coded Carrier cell
6 entries, e.g., 1065 is a graphic element, e.g., 1065a, and a monetary value, e.g., 1065b. The
7 monetary value, e.g., 1065b corresponds to the price that the corresponding Carrier would
8 charge to deliver the Subject Parcel according to the time 1064-3 and date 1063-1 specified
9 according to the row and column of which the intersection (which, in the case described is
10 cell 1071-3-1) contains the Carrier cell entry 1065. For example, as depicted in FIG. 36a, the
11 Carrier cell entry 1065, depicted with the right-diagonal cross-hatch symbol, contains the
12 monetary amount “\$9.00.” Accordingly, the amount \$9.00 is the price that the Carrier
13 Airborne would charge to deliver the Subject Parcel at the identified time of 12:00 p.m. 1064-
14 3 on the identified date of Tuesday, September 28, 1999 1063-1.

15 Similarly, as depicted in FIG. 36a, the color for the Carrier identified as “FedEx”
16 1141b is depicted in the color coding legend 1062 with a left-diagonal cross-hatch symbol
17 1141a. Accordingly, each Carrier cell entry contained within the Graphic Array with the left-
18 diagonal cross-hatch symbol, e.g., 1147, corresponds to a delivery of the Subject Parcel
19 supported by the Carrier “FedEx.”

20 Further, as depicted in FIG. 36a, the color for the Carrier identified as “UPS” is
21 depicted in the color coding legend 1062 with a vertical cross-hatch symbol 1142.
22 Accordingly, each Carrier cell entry contained within the Graphic Array with the vertical
23 cross-hatch symbol, e.g., 1148, corresponds to a delivery of the Subject Parcel supported by
24 the Carrier “UPS.”

25 Similarly, as depicted in FIG. 36a, the color for the Carrier identified as “USPS” is
26 depicted in the color coding legend 1062 with a horizontal cross-hatch symbol 1143.
27 Accordingly, each Carrier cell entry contained within the Graphic Array with the horizontal
28 cross-hatch symbol, e.g., 1149, corresponds to a delivery of the Subject Parcel supported by
29 the Carrier “UPS.”

1 In the embodiment of the Graphic Array depicted in FIG. 36a, the Graphic Array is
2 dynamically dimensioned. For instance, only the dates and days (1063-1 through 1063-3) for
3 which delivery that conforms to the particular Shipper's Parcel Specifications for the
4 particular Subject Parcel are displayed across the top of the graphic. For example, for the
5 date Tuesday, September 28, 1999 (1063-1), at the time 5:00 p.m. (1064-6), no Carrier
6 supports delivery of the Subject Parcel.

7 Further, as depicted in FIG. 36a, only the times (1064-1 through 1064-6) during which
8 at least one of the Carrier/Services identified as supporting the delivery are displayed along
9 the viewer's left side of the Dynamically Dimensioned Multi-Carrier Graphic Array online
10 display.

11 Still further, as depicted in FIG. 36a, a Carrier cell entry, e.g., 1065, is displayed for
12 each of, but only for each of, the Carriers/Services that support delivery for a particular day
13 and time in the cell of the Graphic Array that represents delivery on a particular day and at a
14 particular time. When the circumstances require, the System displays one or more Carrier
15 cell entries in a single cell. For instance, cell 1071-3-1 contains two entries, 1065 and 1149;
16 whereas cell 1071-1-1 contains only a single cell. Accordingly, as depicted in FIG. 36a, the
17 cell size expands vertically to accommodate multiple Carrier cell entries.

18 In the exemplary embodiment depicted in FIG. 36a, the color-coding legend 1062 for
19 each of the Carriers/Services represented in the Graphic Array is displayed with color-coding
20 graphic elements (1140a through 1143a) and identification labels (1140b through 1143b) for
21 each relevant Carrier/Service along the viewer's right side of the rating and timing graphic.
22 Alternatively, instead of the printed name, the logo for the particular Carrier/Service can be
23 displayed. As another alternative, the Carrier/Service logo can be displayed in color in the
24 color-coding legend 1062.

25 The particular arrangement of the color legend 1062 depicted in FIG. 36a and the
26 particular colors used in the color legend depicted therein are exemplary and are not a
27 limitation of the invention. In an alternative embodiment, instead of using color, other
28 visually distinctive methods are used to differentiate between different Carriers/Services. For
29 instance, other visually distinctive methods of Carrier/Service differentiation include but are

1 not limited to: three-dimensional texture effects, other three-dimensional effects, two-
2 dimensional markings (for instance, dots, cross-hatching, and the like), lighting effects,
3 graphic symbols (for instance, the logos of the Carriers/Services) and any combination of the
4 aforementioned features with color.

5 In the embodiment of the Graphic Array depicted in FIG. 36a, the exemplary Graphic
6 Array is depicted as horizontally wide enough to accommodate seven delivery days (1063-1
7 through 1063-7) within a particular delivery timespan. The depiction in FIG. 36a of the
8 Graphic Array as a fixed size accommodating up to seven delivery days is exemplary and is
9 not a limitation of the invention. In alternative embodiments, the Graphic Array online
10 display collapses or expands in total size to reflect the actual number of rows and columns
11 that need to be present in order to display the Carrier cell entries for the Carriers/Services that
12 support delivery of the Subject Parcel according to the Shipper's Parcel Specifications.

13 The arrangement as depicted in FIG. 36a of the parcel delivery days and dates (1063-1
14 through 1063-7) across the top and the parcel delivery times (1064-1 through 1064-6) along
15 the left side of the Graphic Array is exemplary and is not a limitation of the invention. In one
16 alternative embodiment, the parcel delivery days and dates are displayed across the bottom,
17 and the parcel delivery times are displayed on the viewer's right side, of the Graphic Array.
18 In other alternative embodiments, the parcel delivery days are arranged on one of the two
19 sides of the Graphic Array and the parcel delivery times are arranged along the top or the
20 bottom of the Graphic Array. In such an alternative embodiment, the cells of the Graphic
21 Array are expandable horizontally to accommodate the appropriate number of relevant
22 Carriers/Services.

23 As depicted in FIG. 36a, the Shipper is asked to input the Expected Ship Date 1060.
24 In the exemplary embodiment depicted, a drop down menu activation mechanism 1061
25 provides the Shipper the ability to activate a pull down menu (not shown) of seven entries
26 beginning with the current date and includes the six days immediately following the current
27 date. The format used is "M/D/YY - Day name". "Today" and "Tomorrow" are displayed
28 appropriately. The number of entries provided by the selection mechanism, the format of the
29 Expected Ship Date, and other features described herein are exemplary and are not a

1 limitation of the invention.

2 In the exemplary embodiment depicted in FIG. 36a, once the Shipper selects the
3 Expected Ship Date, the System uses the Expected Ship date and the other information
4 provided by the Shipper, as in the screens depicted in FIGS. 15 and 26 described above, to
5 access the Carrier Rules, apply the Carrier Rules, and prepare the Graphic Array containing
6 the delivery prices and delivery times for the Subject Parcel according to the Shipper's Parcel
7 Specifications. The System will then generate the signals necessary to display the Graphic
8 Array and cause the Graphic Array to be displayed on the Shipper's PC.

9 Once the Graphic Array is displayed, the Shipper can change previously input
10 information and the System will automatically regenerate the Graphic Array with the delivery
11 rates and delivery times that have been updated to reflect the new information. For instance,
12 if the Shipper selects a new shipping date, the System will regenerate the Graphic Array with
13 the appropriate new rates and times. The logic for regenerating the Graphic Array is
14 described in more detail below.

15 In the exemplary embodiment depicted in FIG. 36a, a Ship Location Type drop down
16 menu activator 1067 is located below the Graphic Array. The particular location of the Ship
17 Location Type selection mechanism as described herein is exemplary and is not a limitation
18 of the invention. The list of locations is the same as the Shipping Location Type drop down
19 menu described above in the description of FIGS. 15 and 26. If the Shipping Location class
20 is a "ship center", a "Find Location" button 1068 is displayed next to the drop down menu. In
21 order to open the Drop Off Locator in a pop-up window, the Shipper places the Shipper's PC
22 cursor on the "Find Location" button 1068 and clicking the Shipper's user input device. The
23 Origin Zip Code and Ship Location type values supplied by the Shipper are used as
24 parameters for the Drop Off Locator to locate a list possible Drop Off Location choices. The
25 Shipper can select a Drop Off Location from the Drop Off Locator menu. The system
26 dynamically responds to changes by the Shipper to Origin Zip Code and Ship Location type
27 to present choices of Drop Off Location choices.

28 Navigational buttons appear at the bottom of the Rates and Times Screen depicted in
29 FIG. 36a. Clicking the "Back" button 117 will return the Shipper to the previously displayed

1 screen, which in the embodiment depicted is the Location and Package Screen as depicted in
2 FIGS. 15 and 26. Clicking the “Next” button 102 will cause the next screen, which in the
3 embodiment depicted is the Service Option Screen (FIG. 28), to be displayed but only if the
4 Shipper has selected a particular Carrier cell entry. For example, if the Shipper click on a
5 particular Carrier cell entry such as 1065, the System will allow the Shipper to then click on
6 the “Next” button 102 and proceed to the Service Option Screen as depicted in FIG. 28.

7 If a user returns to the Rates and Times Screen (FIG. 36a) from the Service Option
8 Screen (FIG. 28), any Service Options selected by the Shipper from the Service Option
9 Screen (FIG. 28) will effect the displayed rates and will be displayed (not shown) as
10 abbreviations below the Shipping Location field 1066.

11 The System in an exemplary eCommerce embodiment such as the one described here
12 creates a multi-carrier, multi-service, shipping cost comparison Graphic Array in much the
13 same way as is disclosed above with regard to the creation of the Graphic Array in an
14 exemplary simplified Internet embodiment. The difference is that in an eCommerce
15 embodiment, instead of collecting only Shipper input, the System collects origination data
16 including origin zip code, subject parcel data, and Carrier/Service filtering data from the
17 Seller, and then completes the Parcel Specifications for the subject parcel by collecting input
18 from the Buyer, including destination zip code.

19 Using the subject parcel’s Parcel Specifications, the System is programmed to access
20 databases containing information about each supported Carrier. Each supported Carrier has a
21 unique rating schedule, delivery and pickup rules and schedules, and certification
22 requirements (the “Carrier Rules”). The System is further programmed to apply each
23 supported Carrier’s Rules to each Shipper’s Parcel Specifications for the corresponding
24 Subject Parcel. The System calculates the Shipping Charges based on zip-to-zip pricing
25 where the Seller has provided the origin zip code and the Buyer has provided the destination
26 zip code.

27 In an eCommerce embodiment, if the Seller selected as the Seller’s preference, “Item
28 cost includes shipping charges” (170, FIG. 21), then the rates displayed will be “FREE”. If

1 the Seller selected as the Seller's preference, "Buyer pays actual shipping charges" (171, FIG.
2 21), then the rates displayed will be the total shipping charge as calculated according to each
3 Carrier's rules for each Service available according to the Seller's expressed preferences. If
4 the Seller selected as the Seller's preference, "Buyer pays shipping and additional charges"
5 (172, FIG. 21), then the System will calculate and display rates that are the sum of: 1) the
6 shipping rate for the applicable service according to each Carrier's rules; 2) If the Seller
7 checked "Add Percentage of Shipping Cost" (173, FIG. 21), the product of the percentage
8 entered in the Percentage of Shipping Cost field (174, FIG. 21) and the total shipping rate
9 calculated according to the Carrier's rules; 2) if the Seller checked "Add Fixed Handling
10 Charge" (175, FIG. 21), the dollar value entered in the Fixed Handling Amount field (176,
11 FIG. 21); and 4) if the Seller indicated "Add System Service Fee" (177, FIG. 21), then the
12 System Service Fee amount as indicated in the System database 22.

13 The Dynamically Dimensioned Multi-Carrier, Multi-Service Graphic Array online
14 display presents only rating and delivery timing information for the Carriers that offer
15 shipping of the particular Subject Parcel according to the particular Shipper's Parcel
16 Specifications and which conform with the Seller's Carrier/Service preferences as selected
17 according to the available options as described above regarding e.g., FIGS. 19 and 20.

18 FIG. 36f is a graphic representation of an alternative exemplary Dynamically
19 Dimensioned Multi-Carrier, Multi-Service Graphic Array online display as a Preview Rates
20 Screen (also referred to in some embodiments as a Rates and Times Screen) in an alternative
21 exemplary embodiment of the invention. The Graphic Array format of the Preview Rates
22 Screen depicted in FIG. 36f is sortable by price (i.e.,cheapest first), by delivery time (i.e.,
23 fastest is first), or preferred carrier, as governed by the enterprise and User preferences. The
24 Preview Rates Screen provides the User with the capability to optimize the Rates 5308
25 according to the Best Price 5136, or the Fastest Delivery 5135.

26 The exemplary Preview Rates Screen depicted in FIG. 36f depicts an array of dates for
27 delivery 5303-5305, multiple Carriers, e.g., 5128 (UPS), 5310 (FedEx), and 5311 (Airborne
28 Express). If the Carriers that provide Services to ship the package according to the User's

1 specifications provide such services on more days than space exists on a single screen display
2 of the Rate Grid, left and right scroll buttons (not shown) are provided.

3 The exemplary Preview Rates Screen depicted in FIG. 36f is expandable for each
4 Carrier to display multiple Services for that Carrier, e.g., 5300 for UPS. The Services for a
5 Carrier can be displayed by the User by clicking a scroll down button, e.g., 5129 for UPS.
6 Each listed Service for the Carrier identifies the time for delivery, e.g., 5306. When the
7 Preview Rates Screen is displayed, the Carrier for which the User has specified a preference
8 (if such a preference has been specified) is displayed in the expanded mode, such as is
9 depicted in FIG. 36f for UPS so that all Services supporting shipment of the subject parcel
10 according to the User's specifications are displayed 5300; Carriers for which no preference
11 has been indicated are displayed in contracted mode, such as is the case for Fed Ex 5310,
12 Airborne Express 5311 and UPS 5128.

13 In the embodiment depicted in FIG. 36f, only the Carriers and Services that support
14 shipment of the subject parcel according to the User's specifications are displayed. In one
15 embodiment of the invention, the User can limit the default display of Carrier and Service
16 comparison to certain Carriers and certain Services. In one such embodiment of the
17 invention, a Show All button (not shown) is provided. Clicking the Show All button causes
18 the System to display all Carriers, Services, and Days of Delivery that support shipment of
19 the subject parcel according to the User's specifications, even if the User has previously
20 limited the available Carriers, Services and Days of Delivery.

21 A price is displayed in an Array cell, e.g., 5307, 5302, for Carrier/Service that
22 supports delivery of the subject parcel on the specified day of delivery 5303-5305. According
23 to the User's Optimization Selection 5135-5136, an Optimizer icon 5301 is displayed in the
24 particular Graphic Array cell entry that reflects the optimal Carrier/Service.

25 As was described above, each Carrier is represented in the Graphic Array/Rate Grid
26 by a different color. In the embodiment of the Rate Grid depicted in FIG. 36f, the optimally
27 rated shipping entry for each Carrier is highlighted in the color for that Carrier; all other
28 entries for that Carrier are in grey. The presence or absence of Carriers in the Graphic Array

1 display is driven by User-specified preferences, if any, and by service choices the user has
2 made (for example, by choosing a billing option that only certain Carriers support).

3 The rates calculated and displayed in the Graphic Array are customizable. Some
4 Users may wish to see the iShip System transaction charge included in the rate quote. In one
5 embodiment of the invention, a Rating button is provided on the same screen on which the
6 Graphic Array is displayed, with which the User can toggle the rates displayed in the Graphic
7 Array back and forth between the actual shipping rates (including all discounts and fees) and
8 the rate that the Carrier charges for shipping.

9

10 b) GENERATION OF THE GRAPHIC ARRAY DISPLAY

11 To develop the rates for display in a Graphic Rates Comparison Array such as the
12 ones depicted in FIGS. 36a and 36f, the System rating component is instantiated in the server-
13 side script. The rating component's rate information method is invoked with the rate
14 parameters embedded in the URL. Based on Carriers' business rules, the rates and their
15 service option charges for all Carriers/Services are calculated from each respective Carrier's
16 zone data, service/delivery time data and rate data.

17 The System keeps the Carrier data up-to-date in the System database 22. The
18 application does not use any carriers' Application Program Interface (API) functions to get the
19 rate information. All of carrier rate data is stored in the System database 22 and all business
20 rules to calculate the rates are implemented within the System.

21 FIGS. 36b through 36e are high level data retrieval and logic flow diagrams depicting
22 the data and high level logic that the system uses to calculate a shipping rate. As depicted in
23 FIG. 36b, the following shipping information is used to calculate a shipping rate: Origin
24 postal code, Destination postal code, Weight, Packaging, Drop off / Pickup, Country code
25 3001. For each Carrier 3002, the rating component of the System uses the origin and
26 destination postal codes 3003. The rating component of the System obtains 3003 the zone id
27 from the zone table 3008 and gathers 3004 the time for deliveries for all available services
28 from the service delivery time table 3009. From the rate table 3010, the rating component

1 obtains services charges for the zone id, packaging type and weight 3005. For each service,
2 the rating component gathers all possible service options charges 3006. After gathering
3 necessary information, the rating component returns an array of rate information 3007. Each
4 element in the array represents a Carrier/Service and consists of service charge, service option
5 charges, and delivery times.

6 The System calculates the rates according to the following overview logic as depicted
7 in FIGS. 36c-36d. As depicted in FIGS. 36c through 36d, the System retrieves all rate IDs
8 (published, net, and retail) by joining the following database tables on the System's
9 AccountNo: AccountAndCarrierAcnt; CarrierAccount; RateDefinition 3020.

10 As depicted in FIGS. 36c through 36d, the System then determines the billing rules for
11 all of the Carrier/Service combinations and their service options by joining the following
12 tables on CarrierID, ServiceID, and ServiceOptionID: BillingOption;
13 BillingOptionAndService; BillingOptionAndServiceOption 3021.

14 As depicted in FIGS. 36c through 36d, for each carrier 3022, the System performs the
15 following procedures: 1) determine if the particular carrier supports the given billing option
16 based on step 2, 3026. If not, continue with the next carrier 3027; 2) Apply carrier business
17 rules, including: a) Calculate dimensional weight 3023; b) Determine billable weight 3024:
18 actual weight, dimensional weight, oversize weight or letter weight; c) Validate package
19 weight and dimensions 3025; (If the rate input violates carrier business rules 3026, continue
20 to next carrier 3027); 3) Determine the zone ID from CarrierZone table for the given
21 origin/destination postal codes 3028; 4) Determine service delivery times 3029 (including
22 Saturday/Sunday delivery times) by joining the following tables on destination postal code: a)
23 CarrierDeliveryArea; b) CarrierServiceDelTime; 5) Determine all service charges from
24 CarrierRate table by RateID, ZoneID, ServiceID and Weight 3030; 6) Determine the service
25 option charges for each Carrier/Service 3031 by joining the following tables on CarrierID and
26 ServiceID: ServiceOption; ServiceOptionAttribute ServiceAndServiceOption; and 7) Apply
27 billing options to service option charges 3032 (different service option charges could be billed
28 to different parties for various billing options).

1 As depicted in FIG. 36e, the expected delivery times for each Carrier/Service returned
2 in the rate information determine the placement of the rate grid for the particular
3 Carrier/Service cell: the delivery date determines the columns 3040 while the delivery time
4 resolves the rows 3041. In the event that multiple rate entries collide 3042, the alphabetical
5 order of the particular Carrier's name is further used to determine the Graphic Array entry
6 order within the same date and time bucket 3043. The same Carrier/Service can be placed in a
7 second time slot in the grid under Saturday or Sunday column 3045 if the Saturday or Sunday
8 delivery is applicable to the particular Carrier/Service 3044.

9 In an eCommerce embodiment of the invention, a Shipper/Seller can preview a
10 shipping rate comparison Graphic Array prior to copying the System-created Link, e.g., 203a
11 as depicted in FIG. 25, for the Seller's eCommerce site. To preview the Graphic Array
12 comparison of shipping costs, the Seller clicks on the Preview button 198, such as is depicted
13 in FIG. 25. FIGS. 37a and 37b represent a System interactivity data and logic flow diagram
14 depicting an exemplary embodiment of the Create Link and the Buyer's Preview Shipping
15 Rates functionality in an eCommerce embodiment of the present invention. FIGS. 37a and
16 37b depict the interactivity between the Seller's 8-1 and Buyer's 8-2 client computers and the
17 System's server computers 20a-21z regarding this functionality. Also depicted are the data
18 accesses to the System database 22. An arrow 230 extending from the top of the diagram and
19 pointing down towards the bottom of the figure graphically represents the passage of time.

20 As depicted in FIGS. 37a and 37b, the Seller, using the Seller's computer 8-1, clicks
21 on the Create a Seller's Link selection option 331 notifying the System servers, e.g., 21a-21z,
22 to generate a display of the Create a Seller's Link screen 332 for display on the display
23 monitor of the Seller's computer 8-1. In one embodiment, the Servers 21a-21z send 332 the
24 necessary information and instructions to build the hyperlink to the Seller's computer 8-1.
25 The Seller enters the link text and clicks the go button and the Seller's computer 8-1 creates
26 the Link 333. The Seller then copies the link, returns to the Seller's web page, and pastes the
27 link 334 in the description of the item to be sold at the eCommerce/eAuction Provider's web
28 site 345.

1 The Buyer, using the Buyer's computer 8-2, enters the Seller's web page 335 at the
2 eCommerce/eAuction Provider's web site 345. The Seller's web page at the
3 eCommerce/eAuction Provider's web site 345 displays the item description with the
4 hyperlink to the System 336 to the Buyer's computer 8-2. The Buyer clicks on the hyperlink
5 337, causing the System's servers 20a-20z to access 338 the System database 22 to retrieve
6 339 the Seller's account and eCommerce shipping preference information. The System
7 servers 21a-21z send a screen to the Buyer's computer 8-2 requesting delivery destination
8 information 340. The Buyer at the Buyer's computer 8-2 enters the delivery destination
9 information and clicks on the Get Rates button 341 which signals the System Servers 20a-21z
10 to prepare the multi-carrier, multi-service Graphic Array. The System Servers 20a-20n access
11 342 the System data base 22 and retrieve 343 the Seller's preferences and account
12 information. The System Servers 21a-21z calculate the rates and prepare the Graphic Array
13 344 for display on the display monitor of the Buyer's computer 8-2.

14 Whether or not the Buyer/Bidder (sometimes simply referred to herein as the Buyer)
15 uses the hyperlink 303 to preview the shipping charges, if the Buyer buys (or is the high
16 bidder), the Seller is provided with the Buyer's (or high bidder's) email address and name 54
17 (as depicted in FIG. 10c) either directly or by the sponsoring Provider. At that point, the
18 Seller enters the System to supply the System with Buyer information (57 and 58 as depicted
19 on FIG. 10d) so that the System can contact the Buyer for details and to facilitate the purchase
20 and shipping of the item.

21 In contrast to the collection of both Seller and Buyer information in an eCommerce
22 embodiment, the generation of the Graphic Array in the exemplary simplified Internet
23 embodiment is accomplished using input from the Shipper only. FIG. 38 is a simplified flow
24 diagram depicting an exemplary high level overview logic flow of the System and the
25 interaction with the Shipper/User such as in an exemplary simplified Internet embodiment of
26 the invention. As depicted in FIG. 38, at least one of the Servers 20a-21z are programmed to
27 provide a User Interface ("UI") that prompts each Shipper user for information about a
28 particular parcel (the "Subject Parcel") and the Shipper's shipping and delivery requirements
29 ("Shipper Parcel Specifications") 1401a-1401n. At least one of the Servers 20a-21z is

1 programmed to receive as a set of input data a particular Shipper's Shipper Parcel
2 Specifications for a particular Subject Parcel 1402. In response to each Shipper's Shipper
3 Parcel Specifications, at least one of the Servers 20a-21z accesses 1403 one or more databases
4 of information concerning, among other things, the Carrier Rules for each of the Carriers
5 supported by the System (the "Supported Carriers") 1404a through 1404n. The Carrier Rules
6 for each of the Supported Carriers are contained in one or more databases 1404a through
7 1404n.

8 As further depicted in FIG. 38, the System then applies the Carrier Rules for all
9 Supported Carriers to each particular set of Shipper Parcel Specifications 1403. From the
10 result of the application by the System of the Carrier Rules to a particular set of Shipper
11 Parcel Specifications, the System prepares a Graphic Array that displays a rating and timing
12 comparison of the delivery services by the supporting Carriers that are available to provide
13 the delivery of the Subject Parcel according to the Shipper's Parcel Specifications 1405. The
14 System then formats the Graphic Array for display on the Shipper's PC 1406, and generates
15 the signals to the Shipper's PC to display the formatted Graphic Array 1407.

16 In one embodiment of the invention, the System provides multiple modes of
17 operation, among which are the Service Comparison Mode and the Shipping Mode. The
18 Service Comparison Mode requires origin and destination zip codes but does not require full
19 address information. The purpose of the Service Comparison Mode is to provide the Shipper
20 with multi-Carrier comparisons of rates, and shipping and delivery options and requirements
21 for each of multiple Carriers. In the Shipping Mode, the Shipper must provide the full
22 address and contact information. The purpose of the Shipping Mode is to print a shipping
23 label or otherwise provide the information necessary to prepare a shipping manifest
24 document. Shipper Parcel Specifications are input in both the Service Comparison Mode and
25 the Shipping Mode.

26 FIGS. 39a through 39c are simplified flow diagrams depicting the initial Timing and
27 Rating procedure to generate a Graphic Array in an exemplary simplified Internet
28 embodiment of the invention. In the embodiment of the invention depicted in FIGS. 39a

1 through 39c, the functions of the Shipper entering shipping information 1150, displaying
2 errors to the Shipper that insufficient shipping information has been provided and prompting
3 the Shipper for additional information 1153, and displaying the Carrier/Service rate and time
4 graphic 1160, are all processed by the Web Browser at the Client. In the embodiment
5 depicted, all other functions and processes depicted in FIGS. 39a through 39c are performed
6 by one or more of the NOC Servers.

7 It should be noted that the depicted separation of functions between the Web Browser
8 at the Client on the one hand and the NOC Servers on the other hand represents an initial
9 procedure to construct the Graphic Array in response to initial Shipper input of Shipper Parcel
10 Specifications. As is explained in more detail below, after the initial construction of the
11 Graphic Array, the System can distribute certain of the functions for supplemental
12 regeneration of the Graphic Array to the Web Browser Client.

13 As depicted in FIGS. 39a through 39c, the Shipper (User) enters shipping information
14 (Shipper Parcel Specifications) 1150. The System validates the shipping information 1151.

15 In the embodiment depicted, at a minimum, the System requires Source Postal Code,
16 Destination Postal Code, Parcel Weight, Type of Shipment, and the Shipping Location in
17 order to determine a timing schedule and rates for each supported Carrier. If the Shipper has
18 not provided at least these minimum specifications, then the System displays error messages
19 1153 prompting the Shipper to input further Shipper Parcel Specifications 1150.

20 Continuing with FIGS. 39a through 39c, if the Shipper has supplied the minimum
21 required specifications, then the System accesses the Shipper Database 1195 to identify any
22 user-specified Carrier designations and to determine the Carrier accounts for the appropriate
23 Shipper 1154. Using the Shipper Parcel Specifications, the System then accesses the Carrier
24 Databases (1404a through 1404n) and determines all possible Carrier/Services that support
25 shipping of the subject parcel 1155.

26 It should be noted that in some embodiments, the Shipper can restrict the identity of
27 Carriers to be used in the construction of the Graphic Array. A Shipper may choose to restrict
28 the System to certain Carriers, for instance, if the Shipper prefers to work only with certain

1 Carriers.

2 Continuing with FIGS. 39a through 39c, the System then examines each
3 Carrier/Service in the set of supporting Carrier/Services 1156. The next step 1157 is a
4 juncture for return of control from a number of points in the System logic and is performed
5 for each Carrier/Service in the set of supporting Carrier/Services.

6 If the System has examined all possible supporting Carrier/Services 1158, the System
7 assembles the Graphic Array from the delivery rate set 1159 and displays the Graphic Array
8 to the user 1160. As was previously explained, the dimensions of the Graphic Array are
9 dynamic.

10 As long as there are further Carrier/Services that remain to be examined in the set of
11 supporting Carrier Services, the System continues to perform the process described below.

12 Using the Expected Shipping Date, the System switches the Carrier/Service's shipping
13 timespan into possible delivery dates and times 1161. Next 1162, the System determines
14 whether the shipping timespan ends on a Saturday 1163. If so, the System accesses the
15 Carrier Database (1404a through 1404n) to determine whether the particular Carrier/Service
16 supports Saturday Delivery 1164. If the particular Carrier/Service does not support Saturday
17 Delivery, then the particular Carrier/Service is eliminated 1177 from the delivery rate set and
18 the System proceeds with the next Carrier/Service in the delivery rate set 1157.

19 If the particular Carrier/Service supports Saturday Delivery, the System determines
20 the appropriate Saturday delivery rate for the particular Carrier/Service 1165.

21 Continuing with FIGS. 39a through 39c, next, the System determines whether the
22 shipping timespan ends on a Sunday 1168. If the shipping timespan ends on a Sunday, the
23 System accesses the Carrier Database (1404a through 1404n) to determine whether the
24 particular Carrier/Service supports Sunday delivery 1166. If the particular Carrier/Service
25 does not support Sunday delivery, then the particular Carrier/Service is eliminated from the
26 delivery rate set 1177 and the System proceeds with the next Carrier/Service in the delivery
27 rate set 1157.

28 If the particular Carrier/Service supports Sunday Delivery, the System determines the

1 appropriate Sunday delivery rate for the particular Carrier/Service 1167.

2 The System then determines whether there is a business day delivery within the
3 shipping timespan 1169. If so, the System accesses the Carrier Database (1404a through
4 1404n) to determine whether the particular Carrier/Service supports business day delivery
5 1170. If the particular Carrier/Service does not support business day delivery, then the
6 particular Carrier/Service is eliminated from the delivery rate set 1177 and the System
7 proceeds with the next Carrier/Service in the delivery rate set 1157.

8 If the particular Carrier/Service supports business day delivery, the System determines
9 the appropriate business day delivery rate for the particular Carrier/Service 1171.

10 Continuing with FIGS. 39a through 39c, the System next determines whether the
11 Shipper has requested E-Mail delivery notification 1172. If so, the System accesses the
12 Carrier Database (1404a through 1404n) to determine whether the particular Carrier/Service
13 supports E-Mail delivery notification 1173. If the particular Carrier/Service does not support
14 E-Mail delivery notification, then the particular Carrier/Service is eliminated from the
15 delivery rate set 1177 and the System proceeds with the next Carrier/Service in the delivery
16 rate set 1157.

17 If the particular Carrier/Service supports E-Mail delivery notification, the System adds
18 the appropriate charge for the E-Mail delivery notification service to each of the particular
19 Carrier/Service's delivery rates 1174.

20 Continuing with FIGS. 39a through 39c, the System then determines whether the
21 Shipper has requested verbal delivery notification 1175. If so, the System accesses the
22 Carrier Database (1404a through 1404n) to determine whether the particular Carrier/Service
23 supports verbal delivery notification 1176. If the particular Carrier/Service does not support
24 verbal delivery notification, then the particular Carrier/Service is eliminated from the delivery
25 rate set 1177 and the System proceeds with the next Carrier/Service in the delivery rate set
26 1157.

27 If the particular Carrier/Service supports verbal delivery notification, the System adds
28 the appropriate charge for the verbal delivery notification service to each of the particular

1 Carrier/Service's delivery rates 1178.

2 Next 1179, the System determines whether the Shipper has requested that the
3 Carrier/Service guarantee delivery time 1180. If so, the System accesses the Carrier Database
4 (1404a through 1404n) to determine whether the particular Carrier/Service supports
5 guaranteed delivery times 1181. If the particular Carrier/Service does not support guaranteed
6 delivery times, then the particular Carrier/Service is eliminated from the delivery rate set
7 1177 and the System proceeds with the next Carrier/Service in the delivery rate set 1157.

8 If the particular Carrier/Service supports guaranteed delivery times, the System adds
9 the appropriate charge for the guaranteed delivery times service to each of the particular
10 Carrier/Service's delivery rates 1182.

11 Continuing with FIGS. 39a through 39c, the System then determines whether the
12 Shipper has requested a "Call for Pickup" shipping location 1184. If so, the System accesses
13 the Carrier Database (1404a through 1404n) to determine whether the particular
14 Carrier/Service supports "Call for Pickup" services 1185. If the particular Carrier/Service
15 does not support "Call for Pickup" services, then the particular Carrier/Service is eliminated
16 from the delivery rate set 1177 and the System proceeds with the next Carrier/Service in the
17 delivery rate set 1157.

18 If the particular Carrier/Service supports "Call for Pickup" services, the System adds
19 the appropriate charge for the "Call for Pickup" service to each of the particular
20 Carrier/Service's delivery rates 1186.

21 Continuing with FIGS. 39a through 39c, the System next determines whether the
22 Shipper has requested a "Residential Delivery" 1187. If so, the System accesses the Carrier
23 Database (1404a through 1404n) to determine whether the particular Carrier/Service supports
24 "Residential Delivery" services 1188. If the particular Carrier/Service does not support
25 "Residential Delivery" services, then the particular Carrier/Service is eliminated from the
26 delivery rate set 1177 and the System proceeds with the next Carrier/Service in the delivery
27 rate set 1157.

28 If the particular Carrier/Service supports "Residential Delivery" services, the System

1 adds the appropriate charge for the “Residential Delivery” service to each of the particular
2 Carrier/Service’s delivery rates 1189.

3 The System then determines whether the Shipper has requested a “Loss Protection”
4 services 1190. If so, the System accesses the Carrier Database (1404a through 1404n) to
5 determine whether the particular Carrier/Service supports “Loss Protection” services 1191. If
6 the particular Carrier/Service does not support “Loss Protection” services, then the particular
7 Carrier/Service is eliminated from the delivery rate set 1177 and the System proceeds with the
8 next Carrier/Service in the delivery rate set 1157.

9 Continuing with FIGS. 39a through 39c, if the particular Carrier/Service supports
10 “Loss Protection” services, the System calculates the appropriate charge for the “Loss
11 Protection” service and adds the appropriate charge to each of the particular Carrier/Service’s
12 delivery rates 1193 before proceeding with the next Carrier/Service in the delivery rate set
13 1157.

14 FIG. 40 is a graphic representation depicting an exemplary embodiment of a multi-
15 carrier, multi-service shipping rates comparison Graphic Array 320 in an exemplary
16 eCommerce embodiment of the invention.

17

18 c) AUTOMATIC DYNAMIC REGENERATION OF DISPLAY

19 In the exemplary embodiments of the invention described here, the System
20 automatically and dynamically regenerates the display of the Graphic Array and certain
21 portions of other screens when the Shipper makes online changes to Shipper input. To do
22 this, the System generates executable code which it distributes with certain displayable frames
23 to the Web Browser Client. This distribution of code for purposes of regenerating the Graphic
24 Array differs from the initial generation of the Graphic Array as was described above. For
25 example, in the embodiment of the invention depicted in FIGS. 39a through 39c, in the initial
26 development of the Graphic Array, the System distributes the functions that initially generate
27 the Graphic Array as follows: the Shipper entering shipping information 1150, displaying
28 errors to the Shipper that insufficient shipping information has been provided and prompting

1 the Shipper for additional information 1153, and displaying the Graphic Array 1160, are all
2 processed by the Web Browser at the Client; all other functions and processes depicted in
3 FIGS. 39a through 39c are performed by one or more of the NOC Servers 20a-21z.

4 Distribution to the Web Browser Client by the System of executable code that
5 regenerates the Graphic Array provides the capability to dynamically reflect in the Graphic
6 Array any changes that the Shipper may enter to the various Shipper Parcel Specifications;
7 the Graphic Array immediately displays the new information without requiring the Shipper to
8 request a recalculation, such as by clicking on a “Regenerate” button or the like.

9 To facilitate regeneration of the Graphic Array, the System generates executable code
10 which it distributes with the frame, such as the frame that is displayed to the user for
11 collecting the Parcel Specifications, to the Web Browser Client. A displayable frame is a set
12 of information for display on the client display device. For example, in FIG. 36a, in one
13 embodiment of the invention, a first frame of the screen depicted in FIG. 36a comprises the
14 Title “Rates & Times” 1109a, the instruction “Click on the price to select a delivery date,
15 time and carrier.” 1109b, the legend “Date you expect to ship your package:” 1109c, the input
16 field for the Expected Shipping Date 1060, the legend “I’ll ship the package from:” 1109d
17 and the input field for the Shipping Location 1066; a second frame of the screen depicted in
18 FIG. 36a comprises the Graphic Array.

19 As the System generates the display of each frame, the System generates executable
20 code which it distributes with, e.g., the Rate & Times frame, to the Web Browser Client.
21 Thereafter, the Web Browser Client uses the executable code to automatically regenerate the
22 display of the Graphic Array each time the Shipper makes changes to the Shipper Parcel
23 Specifications. In one embodiment of the dynamic regeneration aspect of the invention, the
24 executable code distributed to the Web Browser Client uses JavaScript.

25 In some cases, the executable code sent to the Web Browser Client provides the
26 information and the capability to regenerate the Graphic Array without any further
27 communication with the Server. In other cases, the Web Client Browser must return control to
28 the Server so that the Server can access data maintained by or accessible by the Server; the

1 Server then regenerates the Graphic Array or otherwise provides the Web Browser Client
2 with the information necessary to regenerate the Graphic Array.

3 In an exemplary embodiment of the automatic dynamic regeneration aspect of the
4 invention, the executable code distributed to the Web Browser Client contains the logic to
5 apply Carrier Rules to Shipper Parcel Specification changes. For instance, Shipper changes to
6 the Service Options screen as depicted in FIG. 28 would be automatically processed by the
7 Web Client Browser and the Web Client Browser would regenerate the Single Day Rate
8 Graphic Array depicted therein to reflect the Shipper changes. In one such automatic
9 dynamic regeneration embodiment, only those functions that do not require further access to
10 the relevant Carrier's database are distributed to the Web Browser Client.

11 It should be noted that, according to the automatic dynamic regeneration aspect of the
12 invention, if after the Shipper views the Graphic Array the Shipper enters changes to any of
13 the factors with which the System calculates the rates and develops the Graphic Array, the
14 System uses a similar logic flow to regenerate the Graphic Array as was explained above in
15 relation to FIGS. 39a through 39c.

16 The dynamic regeneration capability is used to automatically regenerate response
17 screens in many places throughout the System. For instance, as was mentioned above, as in
18 the case of FIG. 36a, if the Shipper changes Origin Zip Code and/or Ship Location Type, the
19 System will automatically regenerate a list of possible Drop Off Location choices.

20

21 d) COMPLETING PARCEL SPECIFICATIONS AND THE
22 BUYER'S INFORMATION

23 In an eCommerce embodiment of the invention, the System collects information from
24 both a Seller (the Shipper) and a Buyer (the Recipient). The Seller (Shipper) inputs
25 information about the parcel to be shipped and initial information about the Buyer. The
26 Buyer then inputs information such as shipping address and payment information. Depending
27 upon the Seller's preferences, the Buyer may also be asked to choose one of multiple carriers
28 and multiple shipping services.

1 FIG. 41 is a graphic representation of a Seller's Buyer Information Screen (57, FIG.
2 10d) in an eCommerce embodiment of the invention. The Seller enters the screen in one
3 embodiment by logging in to the System and then selecting the Sell It option 31a and by
4 selecting the Request Buyer Info submenu option 31b-3. The System provides the Seller with
5 instructions to complete the requested data 350. The Seller inputs the Buyer's Name 351, the
6 Buyer's e-mail address 352, an Order/Item number 353, a Description of the Goods to be
7 Shipped 354a (the Seller may scroll through the description using the scroll buttons 354b and
8 354c if the description exceeds the online screen window for the description text), and a
9 message to the buyer 355a (the Seller may scroll through the message using the scroll buttons
10 355b and 355c if the message exceeds the online screen window for the message text).

11 Buyer information and package/item information is mapped by the System into the
12 appropriate shipping data fields (i.e., Buyer name is mapped to Recipient Company/ name;
13 Buyer e-mail is mapped to Recipient e-mail, item/order number is mapped to reference
14 number, etc.).

15 Clicking on the Next button 102 will cause the System to display the Next screen,
16 which in this case is the package specific information screen (58, FIG. 10d) as depicted in
17 FIG. 42.

18 FIG. 42 is a graphic representation of an exemplary embodiment of a Subject Parcel
19 data screen. The Seller inputs the weight by clicking on the weight pull down menu button
20 358-2 and selecting a weight 358-1 from the list. The Seller selects Loss Protection, the
21 default being Basic Coverage 360, or Declared Value 361. If the Seller selects Declared
22 Value 361, the Seller must enter a value 362 greater than \$0.00 and less than or equal to
23 \$50,000.00. The Seller also enters the Item Cost to be displayed to the Buyer 364 and
24 indicates whether or not the System should show the Buyer the total of the Item Cost and
25 Shipping Charges 363. Once the Seller has entered the information, if the Seller clicks on the
26 Send button 365, the System validates the information input and prepares an e-mail to the
27 Buyer (59, FIG. 10d).

28 At this point, the System generates a System package tracking number. A System

1 tracking number is a unique number generated internally by the System to identify a
2 particular package shipped using the System. One embodiment of the way in which the
3 System generates a System package tracking number is disclosed below in the Tracking
4 section of the disclosure of the present invention.

5 FIG. 43 is a graphic representation of an exemplary embodiment of a System-prepared
6 e-mail to the Buyer. The System builds the e-mail to contain the identification of the System
7 as the sender 370, the e-mail of the Buyer 352 as supplied by the Seller, a Subject
8 identification containing the item number 353 as supplied by the Seller, the Buyer name 351
9 as supplied by the Seller, the Seller name 375 as retrieved from the Seller's account
10 information retrieved after the Seller logged into the System before entering Request Buyer
11 Info 31b-3 (e.g., as depicted in FIG. 24), a Reference number as provided by the Seller 353,
12 instructions to the Buyer 371 to click on the embedded hyperlink 372, and some further
13 instructions to the Buyer 374. The System builds the hyperlink 372 according to a preset
14 URL location 372-1 as provided from the System database 22, and specifying the System
15 package tracking number 372-3 as the value for a variable named "T=" 372-2.

16 If the Buyer's e-mail program is integrated with the Buyer's web browser, then the
17 Buyer can click on the hyperlink/URL 372 contained in the e-mail. Otherwise, the Buyer
18 must copy the hyperlink/URL 372 into the Address/Location field of the web browser. When
19 the Buyer clicks on the hyperlink/URL 372, the System displays the first screen (60, FIG.
20 10d) in the Buyer Response process.

21 FIG. 44 is a graphic representation of an exemplary embodiment of the Buyer
22 Response Introduction screen. The System provides the Buyer with instructions 380. The
23 System instructs the Buyer 382 to indicate 383 the Buyer's choice not to supply the requested
24 shipping information and an explanation as to why 384-1. The Buyer can scroll through the
25 explanation using the up and down scroll keys 384-2 and 384-3 if the text of the description
26 exceeds the online screen window for the text. The Buyer sends the refusal notification and
27 message by clicking the Send button 385. Otherwise, if the Buyer wishes to proceed, the
28 Buyer clicks the Next button 381 which will cause the System to display a Buyer Shipping

1 Information Collection screen (61, FIG. 10d).

2 FIG. 45 is a graphic representation of an exemplary embodiment of the Buyer
3 Shipping Information Collection screen. The System requests that the Buyer input the
4 Buyer's delivery address information and then click the Next button 389. The Buyer inputs
5 the delivery address information including the Company/Name 390, the Attention to name
6 391, the street address 392, the floor/room number 393, the department 394, the city 395, the
7 state 396-1 using the pull down menu button 396-2, the zip code 397, the telephone number
8 398, the fax number 399, and whether the delivery address is a business 400 or a residence
9 401. If the Buyer then clicks the Next button 102, the System validates the information
10 supplied by the Buyer and displays a screen as depicted in FIG. 46 containing a selection as to
11 whether yes 405 or no 406 the Buyer wants a guaranteed delivery time. Once the Buyer
12 selects the guarantee choice, then the Buyer clicks the Get Rates button 407 to request that the
13 System prepare and display the multi-carrier, multi-service shipping rates comparison
14 Graphic Array 320.

15 An exemplary embodiment of the Graphic Array 320 in an exemplary eCommerce
16 embodiment of the invention is depicted in FIG. 46. The Graphic Array 320 presents a multi-
17 carrier, multi service rate and time shipping cost comparison as similarly disclosed above and
18 described with respect to FIG. 36a.

19 The System creates the Graphic Array in much the same way as is disclosed above
20 with respect to FIG. 36a except that, with respect to the eCommerce embodiment, instead of
21 only Shipper input, the System collects origination data including origin zip code, subject
22 parcel data, and Carrier/Service filtering data from the Seller, and then completes the Parcel
23 Specifications for the subject parcel by collecting input from the Buyer, including destination
24 zip code.

25 Using the subject parcel's Parcel Specifications, the System 1 is programmed to
26 access databases containing information about each supported Carrier. Each supported
27 Carrier has a unique rating schedule, delivery and pickup rules and schedules, and
28 certification requirements (the "Carrier Rules"). The System 1 is further programmed to

1 apply each supported Carrier's Rules to each Shipper's Parcel Specifications for the
2 corresponding Subject Parcel. The System calculates the Shipping Charges based on zip-to-
3 zip pricing where the Seller has provided the origin zip code and the Buyer has provided the
4 destination zip code.

5 The System provides an online display of a Dynamically Dimensioned Multi-Carrier
6 Graphic Array such as is depicted in FIG. 46. If the Seller selected as the Seller's preference,
7 "Item cost includes shipping charges" (170, FIG. 21), then the rates displayed will be
8 "FREE". If the Seller selected as the Seller's preference, "Buyer pays actual shipping
9 charges" (171, FIG. 21), then the rates displayed will be the total shipping charge as
10 calculated according to each Carrier's rules for each Service available according to the
11 Seller's expressed preferences. If the Seller selected as the Seller's preference, "Buyer pays
12 shipping and additional charges" (172, FIG. 21), then the System will calculate and display
13 rates that are the sum of: 1) the shipping rate for the applicable service according to each
14 Carrier's rules; 2) If the Seller checked "Add Percentage of Shipping Cost" (173, FIG. 21),
15 the product of the percentage entered in the Percentage of Shipping Cost field (174, FIG. 21)
16 and the total shipping rate calculated according to the Carrier's rules; 2) if the Seller checked
17 "Add Fixed Handling Charge" (175, FIG. 21), the dollar value entered in the Fixed Handling
18 Amount field (176, FIG. 21); and 4) if the Seller indicated "Add System Service Fee" (177,
19 FIG. 21), then the System Service Fee amount as indicated in the System database 22.

20 The Dynamically Dimensioned Multi-Carrier, Multi-Service Graphic Array online
21 display presents only rating and delivery timing information for the Carriers that offer
22 shipping of the particular Subject Parcel according to the particular Shipper's Parcel
23 Specifications and which conform with the Seller's Carrier/Service preferences as selected
24 according to the available options as described above regarding FIGS. 19 and 20.

25 The Buyer uses a user input device such as a mouse, track ball, or the like, to pick a
26 Carrier and Service. To make the selection, the Buyer, for instance, places the cursor of the
27 Buyer's PC on the displayed Carrier cell entry (e.g., 408 as depicted in FIG. 46; e.g., 1065 as
28 depicted in FIG. 36a) in the Graphic Array and clicks the Buyer's user input device (the

1 “Selected Carrier”).

2 Once the Shipper selects a particular Graphic Array Carrier cell element, (e.g., 408 as
3 depicted in FIG. 46; e.g., 1065 as depicted in FIG. 36a) the System then processes the
4 shipping transaction. In an exemplary simplified Internet embodiment of the invention, the
5 System processes the Shipper’s shipping transaction using Shipper information from the
6 Shipper Database 1195 (e.g., as depicted in FIG. 39a) and information for the Selected Carrier
7 from the Carrier Database 1404a through 1404n (e.g., as depicted in FIG. 39a). In an
8 exemplary eCommerce embodiment of the invention, the System processes the shipping
9 transaction using information supplied by both the Seller/Shipper and the Buyer/Recipient
10 and information for the Selected Carrier.

11 In an eCommerce embodiment of the invention, once the Buyer selects a Carrier and
12 Service, the System prepares a Shipping Summary Screen (63, FIG. 10d) an exemplary
13 embodiment of which is depicted in FIG. 47. The System reports a summary of the Shipping
14 information including the delivery address 410, the Carrier/Service 411 and the itemized and
15 total charges for the item and shipping 412. In addition, if the Seller requested the System to
16 collect payment information, the System provides a drop down selection menu button 413-2
17 which when clicked will display a list of the methods of payment previously selected by the
18 Seller (e.g., 179a-179g, and 180, as depicted in FIG. 21). If a credit card payment method is
19 indicated, the Buyer is required to supply a credit card number 414, and the expiration date
20 month 415-1 (using a drop down menu button 415-2) and year 416-1 (using a drop down
21 menu button 416-2). The Buyer is instructed to click the Cardholder Information button 417
22 if the cardholder name and address are different than the shipping name and address 419. If
23 the Cardholder and shipping information match, the Buyer clicks the Send button 418 to send
24 the payment information to processing.

25 In an exemplary simplified Internet embodiment of the invention, the System
26 generates a Shipping Summary Screen once the Shipper has picked a particular
27 Carrier/Service entry from a Graphic Array comparison. FIG. 48 depicts an alternative
28 exemplary embodiment of a Shipping Summary Screen such as in an exemplary simplified

1 Internet embodiment of the invention. In the embodiment depicted in FIG. 48, the Shipper has
2 picked a particular Carrier/Service entry from a Graphic Array comparison (e.g., 1065 as
3 depicted in FIG. 36a). The Shipping Summary Screen depicted in FIG. 48 displays the
4 Shipper Parcel Specifications 1110 and provides a detailed list and total, of the selected
5 Carrier's charges. Clicking on the "Next" button 102 causes the display of the first of a series
6 of several screens (not shown) requesting the necessary Shipper and Recipient information.
7 Once the Shipper has input all of the necessary information, the Shipper is presented with a
8 final Summary and Payment Screen (not shown), which in addition to the fields depicted in
9 FIG. 48, further requests Payment information, such as Payment Method, Credit Card No.,
10 Expiration Date, and Credit Card Type.

11 Returning to the eCommerce embodiment depicted in FIG. 47, if the Buyer clicks the
12 Cardholder Information button 417, the System displays a Cardholder Information collection
13 screen (64, FIG. 10d), an exemplary embodiment of which is depicted in FIG. 49. The Buyer
14 is asked to supply the Cardholder name 420, Street address 421, State 422-1 (using a pull
15 down menu button 422-2), and zip code 423. The Buyer clicks the Save button 424 to save
16 the cardholder information.

17 As depicted in FIG. 10d, once the Buyer in an eCommerce embodiment has completed
18 all Buyer Response screens, the System enters the System package tracking number in the
19 System's Shipping Log for the Seller, an exemplary embodiment of which is depicted in FIG.
20 50. The System also notifies the Seller via e-mail (66, FIG. 10d) that the Buyer has
21 completed all of the necessary shipping and payment information.

22

23 E. SHIPPING THE PACKAGE

24 In an exemplary eCommmerce embodiment of the invention, the System notifies the
25 Seller via e-mail (66, FIG. 10d) once the Buyer has completed all of the necessary shipping
26 and payment information. An exemplary embodiment of a Seller notification e-mail is
27 depicted in FIG. 51. In the Seller notification e-mail, the System identifies the System as the
28 sender 370, the Seller's e-mail 107 (e.g., as depicted in FIG. 12) as the recipient 375, and the

1 item number 353. The e-mail contains a message 425 and instructions 427 to log on to the
2 System to view a Shipping Log. The Shipping Log provides a platform with which the
3 Shipper/Seller controls the shipping and attendant functions for all packages shipped or to be
4 shipped by the particular Shipper/Seller.

5 The Seller can view the Shipping Log by selecting the View Shipping Log submenu
6 option 32b-2 from the Ship It menu option 32b. The Shipper/Seller can control the display
7 order of the Shipping Log by selecting from a choice of several reporting controls. The
8 Shipping Log (65, FIG. 10d) as depicted in FIG. 50 provides reporting controls such as
9 Display selection 430 (with a pull down menu button 431), time period 432 (with a pull down
10 menu button 433), and sort by 434 (with a pull down menu button 435). The Seller can click
11 on the Update View button 436 to request an up-to-date report. Each Shipping log line item
12 contains the System tracking number 438, the addressee name 437, the Carrier 440 and
13 Service 439, the Ship date 441 and delivery date 442, and control buttons that allow the Seller
14 to request details 443, instruct the system to ship the item 444, void the shipment 445, or
15 reprint a label 446.

16 FIG. 52 is a graphic representation of an exemplary embodiment of a Void Package
17 screen that the System displays if the Seller clicks on the Void button 445 on the Shipping
18 Log. The Void Package screen provides a summary report of the information about the
19 particular package 452, provides a View Details button 451 if the Seller wants additional
20 detailed information about the package, and a Void Package button 453 if the Seller finally
21 decides to void the identified package.

22 FIG. 53 is a graphic representation of an exemplary embodiment of a Reprint Label
23 screen which provides a report about the package 454, a View Details button 451, and a
24 Generate Label button 455. If the User clicks the Generate Label button 455, the System will
25 generate and print a shipping label (69, FIG. 10e) for according to the appropriate Carrier and
26 Service, as limited by the Seller and as finally selected by the Buyer.

27 As mentioned above, in some embodiments, the Shipper can use the System to locally
28 print on the Shipper's printer device a bar-coded shipping label according the Selected

1 Carrier's certification standards. In some embodiments, the bar-coded shipping label,
2 including two dimensional bar code labels, and other types of shipping labels, can be printed
3 on either a thermal label printer or on a laser printer. The Shipper specifies the type of printer
4 to the system during initial setup procedures. Thereafter, the System uses, as appropriate, the
5 thermal printer or laser printer module to prepare the label image for printing on the Shipper's
6 printer.

7 FIG. 54 depicts a flow diagram of one embodiment of the aspect of the invention that
8 provides printing of bar-coded shipping labels on printer devices which are compatible with
9 the client system on which the web browser is running, such as an HP-compatible laser
10 printer. As depicted in FIG. 54, one of the NOC Servers, for instance, the Shipping Server,
11 e.g., 21t as depicted in FIG. 7, gets the Label Size from the Carrier Label Specification 1250,
12 the Label Layout from the Carrier Label Specification 1251, Label Data from the Shipper
13 Database 1252, and the Label Quality in Dots Per Inch ("DPI") as set by the Server 1253, and
14 uses this information to Generate the Label 1254.

15 The Server then creates, and causes the display on the client browser's display device
16 of, a text string with a specified font face and in a specified font size in an HTML table data
17 cell with a specified width 1255. If the client browser is using a 096 display device DPI, the
18 display device will display said text string in the HTML table data cell in a single line. If on
19 the other hand, the client browser is using a 120 display device DPI, the display device will
20 display said text string in the HTML table data cell in two lines.

21 In creating the display of the text string, the Server also sends a message to the
22 Shipper asking the Shipper to answer the following question: do you see the text string
23 displayed on your screen as a single line or as wrapped text in multiple lines? The Server
24 receives the Shipper's response and determines from the response whether the Shipper's
25 display device has displayed the text as a single line or as wrapped text in multiple lines 1256.
26 If the text is displayed as a single line, then the client browser 1257 display device DPI is
27 120. Otherwise, the client browser 258 display device DPI is 96.

28 Next, the Server calculates the shipping label HTML image size in pixels 1259 by

1 multiplying the Carrier-specified label size from the Carrier Label Specification times the
2 client browser display device DPI as determined by the previous step.

3 Next, the System displays the generated label image in the client browser 1260 with
4 an HTML image tag and an HTML image size in pixels as calculated in the prior step.

5 The client browser calculates the size of the label to be printed in inches by dividing
6 the label HTML image size in pixels as calculated in a prior step by the client browser display
7 device DPI 1261; the client browser then prints out the label with the size calculated 1261.

8 FIG. 55 depicts a flow diagram of an exemplary embodiment of the aspect of the
9 invention that provides printing of dimensionally accurate images, such as dimensionally
10 sensitive symbologies including two-dimensional bar codes and other two-dimensional
11 machine readable symbologies. This aspect of the invention provides the printing of such
12 dimensionally accurate images on various types of printer devices including among others
13 HP-compatible laser printers. The printer devices can be configured with remote computers,
14 such as PC's, that will receive signals to print the dimensionally accurate image over a
15 communications network such as the Internet. Each PC having a client browser or executing
16 like software, and each PC being configured with a pre-established Image Resolution that
17 applies to the display device and the printer device configured with the PC.

18 As depicted in FIG. 55, a computer, such as Server 20t as depicted in FIG. 7,
19 determines the Image Size 1350, the Image Layout 1351, any relevant Image Data 1352, and
20 the Image Resolution in Dots Per Inch ("DPI") or in any other measure of Image Resolution
21 1353. The Server 20t uses this information to Generate the Image.

22 Alternatively, the Image has previously been created; the Server 20t determines from
23 the Image, the Image Size 1350, the Image Layout 1351, any relevant Image Data 1352, and
24 the Image Resolution in DPI or in any other measure of Image Resolution 1353 (collectively
25 referred to hereinafter as the "Image Characteristics").

26 The Server 20t determines the possible Image Resolution Categories and associated
27 values for client PC's 1354. Image Resolution Categories and associated values include
28 information such as the number of text strings, and the length of and characteristics (font face,

1 font size, and HTML table cell width) of each of the identified number of, text strings that
2 must be used to determine the Image Resolution of client display devices 1355-1356.

3 An HTML table cell width is fixed in that the physical width of the display of the
4 HTML table cell does not change depending upon the resolution of the client device; a text
5 string comprised of characters having a particular font and font size has a scalable width,
6 depending upon the resolution of the client device resolution. Use of an HTML table cell to
7 measure the resolution of client devices is not a limitation of the invention. In an alternative
8 embodiment, a graphic element other than an HTML table cell, having a fixed width, is used
9 to measure the resolution of client devices.

10 The possible Image Resolution Categories and values are stored in the memory of the
11 Server 20t and updated on some basis. In an alternative embodiment, the possible Image
12 Resolution Categories and values are input into the Server computer.

13 The Server 20t then analyzes the Image Characteristics, and the possible Image
14 Resolution categories and/or values 1355, and creates the appropriate number of text strings
15 and associated HTML table cells 1356. Each text string is created to have a specified font
16 face, a specified font size, and an associated HTML table cell with a specified width 1356.
17 The computer then causes the display of the text strings in the associated HTML table cells on
18 the remote client PC's display device 1358.

19 In creating the display of the text string, the Server also sends a message to the
20 recipient PC asking the user to answer the following question: is the first text string displayed
21 on your screen as a single line or as wrapped text in multiple lines? The Server 20t receives
22 the remote user's response and determines from the response whether the remote user's PC's
23 display device has displayed each of the text strings as a single line or as wrapped text in
24 multiple lines 1256. The Server 20t then sets the PC's Remote Image Resolution for printing
25 the Image 1359 according to the results of the user's PC's display of the text strings.

26 Next, the Server calculates the Remote HTML Image Size in pixels 1360 by
27 multiplying the Image Size times the PC's Remote Image Resolution as determined by the
28 previous step.

1 Next, the Server displays the generated image on the display device of the remote PC
2 1361 with an HTML image tag and the Remote HTML Image Size in pixels as calculated in
3 the prior step.

4 The client browser of the remote PC calculates the size of the Image to be printed
5 ("Remote Print Image Size") in inches by dividing the Remote HTML Image Size in pixels
6 by the Remote Image Resolution 1362; the client browser then prints out the Image with the
7 Remote Print Image Size 1362.

8 In one embodiment of the invention, instead of printing a shipping label at the
9 Shipper's printer, a Package Number 1120 is displayed online on a Package Number Screen
10 with notification that the label will be printed at a shipping location previously designated by
11 the Shipper. FIG. 56 depicts an exemplary embodiment of a Package Number Screen. The
12 Shipper can Void the Package Label at this point by clicking the Void Package button 1121.
13 The Shipper can request shipping of a new parcel by clicking the "New Package" button 1122
14 or can indicate completion of shipping instructions by clicking the "Done" button 1123.

15 FIG. 57 depicts an exemplary embodiment of a Generate Shipping Label Screen in an
16 exemplary simplified Internet embodiment of the invention. The Shipper is given instructions
17 1125 as to how to print the label. Clicking the "Generate Label" button 1124 causes the bar-
18 coded label to be generated.

19 FIG. 58 depicts an exemplary embodiment of a Print Label Screen in an exemplary
20 simplified Internet embodiment of the invention. At the top of the Screen, an instruction
21 1130 is displayed to scroll to the bottom of the screen for instructions. The generated label
22 1131 is displayed in the main body of the screen. Instructions for printing the label 1132 are
23 displayed at the bottom of the screen. Clicking the "Print Label" button 1133 (visible only
24 for supported web browsers) will cause the label to be printed. Clicking the "Done" button
25 1134 will close the web browser window.

26 Returning to the exemplary eCommerce embodiment, if the Seller chooses to ship a
27 specified package, e.g., by clicking on the Ship button 444 as depicted in FIG. 50, the System
28 requests the Seller to input information to e-mail a notification to the Buyer that the package

1 is being shipped. FIG. 59 is a graphic representation of an exemplary embodiment of a Send
2 Ship Notification screen (67, as depicted in FIG. 10e). In one eCommerce embodiment, this
3 information is automatically prepared by the System and an e-mail (e.g., 70 as depicted in
4 FIG. 10e) is automatically sent to the Buyer when the Seller ships the package. In one
5 embodiment, the Seller completes the information in this screen only if the Seller ships the
6 package with a Carrier or a service that is not supported by the System.

7 In an exemplary FIG. 60 depicts an exemplary E-Mail Others “Messages” pop-up
8 Window in an exemplary simplified Internet embodiment which allows the Shipper to
9 identify the “To” or “cc” status of the desired notification 1101 using a drop down menu
10 activator 1102 and which allows the user to enter each e-mail recipient’s Name 1103 and E-
11 Mail Address 1104. FIG. 60 depicts two Recipients 1107 and 1108; the screen is exemplary
12 and is not a limitation of the invention.

13 Returning to the exemplary eCommerce embodiment, when the Seller chooses to ship
14 a specified package, the System prepares and displays a Ship a Package Summary report (68,
15 FIG. 10e) an exemplary embodiment of which is depicted in FIG. 61.

16 If the Seller/Shipper ships packages using UPS, the Seller will need to run UPS End of
17 Day processing (71, FIG. 10e) at least once each day a package is shipped using UPS. FIG.
18 62 is an exemplary embodiment of the UPS End of Day screen. The System provides
19 instructions 470 and a Perform End-of-Day button 471. The System also provides Reprint
20 instructions to reprint a driver record from a previous End-of-Day process 472 and a Find
21 Driver Record button 473.

22 FIG. 63 is a graphic representation of an exemplary embodiment of a Reprint Driver
23 Record Screen that lists prior driver records 480, each record provides a Reprint button 481
24 which when clicked will reprint the driver record (72, FIG. 10e).

25 After the Seller has completed printing the label, the Seller must give the package to
26 the Carrier (73, FIG. 10e) so that it can be delivered via the Carrier (74, FIG. 10e).

27 The System provides complete tracking and reporting capabilities for packages
28 shipped through it, and for packages for which a Carrier tracking number is known as

1 described below and as disclosed in U.S. Provisional Patent Application Serial No.
2 60/170,186 previously attorney docket number 36618/DBP/I249 now attorney docket number
3 36620/DBP/I249, the disclosure of which has previously been incorporated for all purposes
4 herein by reference.

5 FIGS. 64a-1, 64a-2, 64b-1 and 64b-2 are System interactivity data and logic flow
6 diagrams depicting an exemplary eCommerce embodiment of the process by which the
7 System completes the information necessary to ship a package. References in the explanation
8 and description of FIGS. 64a-1, 64a-2, 64b-1 and 64b-2 to the Buyer mean to the Buyer and
9 the Buyer's computer 8-2; references to the Seller mean to the Seller and the Seller's
10 computer 8-1; references to the System mean the System servers, 20a-20n (the database
11 servers) and 21a-21z (the other System servers); references to the System database mean to
12 the entire logical System database 22.

13 The Seller eCommerce Preference setup Processes 231 through 239 have been
14 previously described herein above. After the Seller has completed setting up eCommerce
15 preferences, and after the Seller is notified of a sale, the Seller enters the System and prepares
16 to enter Buyer information by clicking on the Buyer information submenu option 501. The
17 System then displays a Buyer Information screen 502 to the Seller. The Seller then enters
18 Buyer information and clicks the Next button 503. The System responds by displaying the
19 Item and Cost screen 504. The Seller enters the item and cost information and sends the
20 information to the System 505.

21 The System uses the information provided by the Seller to create a new package
22 record in the System database and sets the status of the package to "waiting for buyer's
23 response" 506. The System prepares and sends an e-mail to the Buyer requesting information
24 to complete the shipment and including a URL hyperlink to the System web site page that is
25 available to intake the Buyer's information, the URL containing a System package tracking
26 number for the specified package 507. The System also prepares and sends an e-mail to the
27 Seller informing the Seller that the e-mail has been sent to the Buyer 508.

28 The Buyer upon receipt of the System e-mail, uses a web browser to navigate the URL

1 in the System e-mail and enter the System 509. The System retrieves the System package
2 tracking number from the URL provided by the user's browser to access 510 and retrieve 511
3 the package information from the System database. The System provides the Buyer with an
4 introduction and instructions to complete the process 512. If the Buyer chooses to proceed,
5 the Buyer clicks the Next button 513. The System then requests Buyer shipping information
6 514. The Buyer completes the Buyer shipping information and clicks the Next button 515.
7 The System accesses 516 and retrieves 517 from the System database rating information,
8 including the Seller's preferences. The System uses the rating information and prepares and
9 displays for the Buyer a multi-carrier, multi-service shipping cost comparison Graphic Array
10 518. The Buyer selects a Carrier/Service entry from the Graphic Array to ship the package
11 519. The System verifies the information and requests payment information from the Buyer
12 in accordance with the Seller's preferences 520. The Buyer selects a payment method, enters
13 payment information and Sends the information to the System 521. The System stores all
14 Buyer information and associates that information with the package, and updates the package
15 status to "buyer has replied" 522. The System sends an e-mail to the Seller notifying the
16 Seller that the Buyer has replied 523. The System in some embodiments sends an e-mail to
17 the Buyer notifying the Buyer that the System has informed the Seller that the Buyer has
18 replied 524.

19 The Seller requests a Shipping Log of "Today's Packages" 525. The System accesses
20 the System database 526 to retrieve 527 a Shipping Log of the Seller's packages that need to
21 be processed. The System displays the Shipping Log to the Seller 528. The Seller locates the
22 package to which the Buyer responded and clicks the Ship button 529. The System displays
23 the Shipping screen to the Seller 530.

24 FIGS. 65a and 65b represent a database schema diagram that depicts an exemplary
25 embodiment of tables in which data is stored by the System regarding a particular package
26 and a particular Seller's Account, and from which information is retrieved in order to
27 facilitate the shipment of a package. The database schema depicted in FIGS. 65a and 65b
28 provides an Account User table 251, a Users table 252, an Account User Configuration table
29 253, a Carrier Account table 254, an Account table 255, an Account and Carrier Account

1 table 256, an Address table 257, a Site Type table 258, an Account and Site Type table 259,
2 an Account and Site table 260, and a Site table 270, all of which were previously described
3 herein above with respect to FIGS. 33a and 33b. The database schema with respect to
4 package information further provides the Package Table 261. The Package Table 261
5 contains for each package, among other things, a Package OID (a pointer) 261-1, the actual
6 weight 261-2, length 261-3, width 261-4, height 261-5, System package tracking number 261-
7 6, site type ID 261-7, Site OID (a pointer) 261-8, Account number 261-9, User ID 261-10,
8 From contact name 261-11, From address 1 261-12, To contact name 261-13, To address 1
9 261-14, Bill contact name 261-15, and the Bill address 1 261-16.

10

11 F. TRACKING

12 The tracking features described below apply similarly to both an exemplary simplified
13 Internet embodiment and to an exemplary eCommerce embodiment of the invention.

14

15 1) USER REQUESTED TRACKING

16 In order to track a particular package using the System, a Shipper identifies a tracking
17 number for that package to the System and requests that the System report the status of the
18 package. Two types of tracking numbers are used to track packages: 1) Carrier tracking
19 numbers and 2) System tracking number.

20 Each Carrier assigns each package a tracking number that uniquely identifies each
21 package and which is used to trace packages as the package moves through the particular
22 Carrier's system to the package's destination. The Shipper or the package recipient uses the
23 tracking number for a particular package to track, locate, and verify delivery of the particular
24 package.

25 A System tracking number is a unique number generated internally by the System to
26 identify a particular package shipped using the System. The Shipper inputs the Shipper's
27 Parcel Specifications for the Subject Parcel. Using each Shipper's Parcel Specifications, the

1 System is programmed to access databases containing information about each supported
2 Carrier. Each supported Carrier has a unique rating schedule, delivery and pickup rules and
3 schedules, and certification requirements (the "Carrier Rules"). The System is further
4 programmed to apply each supported Carrier's Rules to each Shipper's Parcel Specifications
5 for the corresponding Subject Parcel. The System provides an online display of a
6 Dynamically Dimensioned Multi-Carrier, Multi-Service Graphic Array as depicted, e.g., in
7 FIGS. 36a and 46 described above.

8 The Shipper in this case uses a user input device to pick the preferred Carrier, by for
9 instance placing the cursor of the Shipper's PC on the displayed Carrier cell entry, e.g. 1065a,
10 in the Graphic Display as depicted in FIG. 36a and clicking the Shipper's user input device
11 (the "Selected Carrier").

12 As a result of the Shipper selecting a Carrier cell entry in the Graphic Display to ship a
13 package, the System assigns the package a System package tracking number and adds a
14 record containing all of the pertinent information about the package to the System database
15 22. Following are exemplary Shipping tracking numbers: MAGGY841VRY50;
16 MAGGY84B496RF; MAGGY84X0FJ45. In one embodiment, the System Tracking
17 Number is based on a Base-33 number system. The characters available are: Zero (0) through
18 nine (9) and A through Z excluding "I" (i), "L" (l), and "O" (o). Each letter represents a
19 value, as depicted in the table below:

20 A = 10 F = 15 M = 20 S = 25 X = 30

21 B = 11 G = 16 N = 21 T = 26 Y = 31

22 C = 12 H = 17 P = 22 U = 27 Z = 32

23 D = 13 J = 18 Q = 23 V = 28

24 E = 14 K = 19 R = 24 W = 29

25 Each System Tracking Number is 13 alphanumeric characters. Position 1 is the letter 'M'.
26 Positions 2 - 7 are a System Account number. Positions 8 - 12 are a five-digit ID. Position 13
27 is a Check Digit.

1 To calculate the Check Digit, the System performs the following steps: 1)
2 Consecutively multiply the numeric value of each of positions 2-7; 2) Consecutively multiply
3 the numeric value of each of positions 8 - 12; 3) Add both results; 4) Divide by 31; 5) Convert
4 the remainder value to a Base-33 number. The converted value is the Check Digit.

5 Referring to FIG. 5 once again, when a Shipper/User ships a package using the
6 System, one or more of the System's Servers, e.g., 21a-21n create a new System tracking
7 number. When a new System tracking number is created, one of the System's Database
8 Servers, e.g., 20a-20n, adds a new package record with the newly created System tracking
9 number to a Package Table 28.

10 The Package Table 28 resides in the System database 22 and contains package records
11 for System processed packages. An exemplary embodiment of the Package Table contains the
12 following information: 1) Package Tracking State ID; 2) Package Shipping State ID; 3) Actual
13 Delivery Time; 4) Delivered To information; 5) Shipping Date; 6) Carrier Tracking Number;
14 7) System Tracking Number; 8) Carrier ID; 9) Actual Package Weight; 10) Service
15 Description; and 11) Package OID. The content of these fields are described further below.

16 The Package Tracking State ID specifies the tracking state of the package. In an
17 exemplary embodiment of the invention, there are four different tracking states: 1) Null (New
18 Packages or Shipped Packages); 2) Manifested (at the end of each day, package information is
19 moved to the Package History Table for tracking purposes); 3) In Transit (The Carrier has
20 picked up packages); 4) Delivered (Packages have been delivered to the shipping destination).

21 The Package Shipping State ID specifies the shipping state of a package. In an
22 exemplary embodiment of the invention, there are two different shipping states: 1) Shipped
23 (New Packages or Shipped Packages); 2) Manifested (at the end of each day, package
24 information is moved to the Package History Table for tracking purposes).

25 The Actual Delivery Time specifies the Date/Time that the package was actually
26 delivered. The Delivered To information identifies the person or place to which the package
27 was delivered (e.g., left with receptionist, receptionist front desk, or guard). The Ship Date
28 specifies the date on which the Carrier picked up the package. The Carrier Tracking Number

1 identifies the Carrier-specific package tracking number. The System Tracking Number
2 specifies the unique Package tracking number internally generated by the System (each
3 System tracking number corresponds to exactly one Carrier-specific tracking number). The
4 Carrier ID specifies an identification code for the particular Carrier. The Actual Package
5 Weight specifies the actual weight of the package as opposed to the billed weight. The
6 Service Description describes the type of services used to ship the package e.g., Overnight, 3
7 Day Ground, Second Day Air, etc. The Package OID contains a Globally Unique Identifier
8 ("GUID") for each package.

9 When the System creates a new package record, the record remains in the Package
10 Table 28 during an initial period of time, for example, the first day during which the record is
11 created, so that the Shipper/User can modify information about the package or void the
12 package record as appropriate. In an exemplary embodiment of invention, the System
13 performs certain processing on a periodic basis, such as at the end of each business day. This
14 type of processing is referred to herein as "End Of Day" processing. In an exemplary
15 embodiment of the invention, during "End of Day" processing, the System removes all new
16 package records from the Package Table 28 and moves the records to a Package History Table
17 29 which also resides on the System Database 22. In an exemplary embodiment, Package
18 History Table 29 records contain the same data fields as described above regarding Package
19 Table 28 records.

20 FIG. 68 is a graphic representation of a Shipper online user input screen that is
21 displayed on the Shipper's display screen 10. If a Shipper/User wants to track a particular
22 package, the Shipper/User enters the tracking number that identifies the particular parcel
23 package of interest in the "Enter tracking number" field 2035. It should be understood by
24 those with ordinary skill in the art that the User may be someone other than the Shipper. For
25 instance, the User may be a Recipient who wishes to track a package being sent to the user.
26 Once the User has entered a tracking number, the User submits a request to track the
27 particular package identified by clicking on the Submit button 2036.

28 FIG. 69 is a logic flow diagram that depicts the high level logic for tracking the status

1 of a particular package. The User enters 2018a and 2018b a tracking number 19 in the
2 tracking number field 2035 (as was shown in FIG. 68). The System first validates 2050 the
3 tracking number 19. The System performs the validation process by attempting to access the
4 record on the System database 22 that is associated with the tracking number 19. To do this,
5 the System requests that a System database server, e.g., 20a (as depicted in FIG. 5) locate and
6 retrieve the package record that is associated with the tracking number 19. The System
7 database server, e.g., 20a as depicted in, e.g., FIG. 5, uses the entered tracking number 19 to
8 search the System database 22 to locate and retrieve the specified package record. In one
9 embodiment, the System database server, e.g., 20a as depicted in, e.g., FIG. 5, is programmed
10 to perform database accesses using Sequel 7.0.

11 Through the validation process, the System determines whether the tracking number
12 19 is a System tracking number or a Carrier tracking number. Below are examples of Carrier
13 tracking numbers.

14 UPS - 1z8595610344113190

15 Airborne - 3918984344

16 FedEx - 811152682326

17 USPS - ej585489546us

18 Yellow Freight - 2100003475

19 If a user enters a Carrier tracking number as the tracking number 19, then depending upon the
20 status of the package, or the number of times that the package was tracked, there may be no
21 information in the System database 22 for the Carrier tracking number. In such a case, the
22 System then uses algorithms provided by each Carrier to determine the Carrier identification.

23 If the System determines that there is information about the package on the System
24 database 22, then the System analyzes the Package Shipping State. If the Package Shipping
25 State of the retrieved record is “Manifested” or “In Transit” and the Package Tracking State is
26 not “Delivered”, then the System prepares to track the package using the appropriate Carrier
27 system. If the Package Shipping State of the retrieved record is “Delivered”, or other final

1 status, then the System reports the status of the package to the user.
2 If the tracking number 19 is a valid System tracking number, then the System extracts the
3 Carrier's tracking number and Carrier's ID from the package record retrieved from the System
4 database 22 before issuing a request 2054. Otherwise, if the tracking number 19 is a Carrier
5 tracking number, then the System extracts the Carrier's ID from the package record before
6 issuing a request 2052 to the Carrier's Internet system. The System uses the Carrier's ID to
7 retrieve from the System database 22 the Internet URL for the Carrier's Internet web site. The
8 URL information is configurable.

9 Returning for a moment to FIG. 5, using the Carrier's Internet URL, the System then
10 makes an HTTP connection to the Carrier's web server, e.g., 23-2, 24-2, 25-2, 26-2, or 27-2,
11 using the URL information for the particular Carrier's web server. Depending upon the
12 Carrier, the System's 1 request and report interface with the Carrier's web server is
13 programmed in HyperText Markup Language ("HTML") (e.g., 24-1, 25-1, 27-1), Extensible
14 Markup Language ("XML") (e.g., 26-1), or both HTML and XML (e.g., 23-1). FIG. 66
15 depicts an exemplary XML formatted request for submitting a tracking request to a Carrier.
16 FIG. 67 depicts an exemplary successful tracking response, also in XML format, returned by
17 the Carrier.

18 Then, as depicted in FIG. 69, the System transmits the Carrier's tracking number over
19 the HTTP connection (2052 or 2054). The System instructs the Carrier's web server as to
20 what information is requested based on the connection made using the URL.

21 If the Carrier's web server successfully responds 2055 to the System's 1 tracking
22 request, the System disconnects from the Carrier's web server and parses the response data.
23 Some Carriers' response data contains unnecessary text information. The System strips out
24 all of the unnecessary text in order to parse the relevant information.

25 If the System database 22 does not have any previous record of the package, such as
26 would be the case if the package had not been shipped using the System shipping application,
27 then the System does not store any data about the package in the Package Table or the
28 Package History Table.

1 Otherwise, the System then updates the System database 22 and reports the
2 information to the Shipper/User 2056. If the package is reported as delivered, the System
3 populates the Package History Table 29 in the System database. As was previously
4 mentioned, in an exemplary embodiment, Package History Table 29 records contain the same
5 data fields as described above regarding Package Table 28 records.

6 If on the other hand, the Carrier's Internet web server returns an unsuccessful report,
7 the System reports the failure to the User. FIG. 70 is a graphic representation of an exemplary
8 unsuccessful tracking report to the User. The Tracking Failure Report Screen as depicted in
9 FIG. 70 informs the User that the System was unable to track the package 2060 and displays
10 2061 the package tracking number 19 that the User previously entered. The Tracking Failure
11 Report Screen asks the User to verify the accuracy of the tracking number and to specify a
12 Carrier by name 2062. The Tracking Failure Report Screen provides a pull down menu
13 button 2063, that when clicked, displays a list 2064 of the supported Carriers. The user enters
14 a new tracking number 19 in the tracking number field 2035 and specifies the Carrier by
15 highlighting one of the Carriers displayed in the list 2064. The user submits the request by
16 clicking on the Submit button 2036 (covered by the pull down selection list 2064 in FIG. 70).

17 If the Carrier's system successfully returns tracking information, then the System
18 displays the package's current status. As depicted in FIG. 71, if the package has a "Delivered"
19 status, the System reports the Status 2071; status as of Last Scan including date time and
20 location 2072; Delivered To location 2073; Delivery Date 2074; Delivery Time 2075;
21 Delivery Location 2076; Signed by 2077; Carrier Name 2078; Service 2079 and Tracking
22 Number 2080.

23 Status 2071 reports the Delivery Status, also referred to as the Track, or Tracking,
24 State. Last Scan 2072 reports Last scan information for the particular package. When a
25 package is moved from one location to another, the label of the package is scanned according
26 to each Carrier's processing requirements. Also, many Carriers scan package labels when
27 packages are received by the recipients. Delivered To 2073 reports the person or place to
28 which the package was delivered (e.g., left with receptionist, receptionist front desk, or

1 guard). Delivery Date 2074 reports the date on which the package was delivered. Delivery
2 Location 2076 reports, for most carriers, the city, zip code, and state information for the
3 location to which the package was delivered. However, for some carriers, such as UPS, the
4 delivery location reports where the package was dropped off (e.g., front porch, front door).
5 Signed By 2077 reports the name of the person who signed the package after receiving it.
6 Carrier 2078 reports the name of the Carrier that delivered the package. Service 2079 reports
7 the type of shipping service (i.e., Ground). Tracking Number 2080 reports the System
8 tracking number or carrier tracking number entered by the User.

9 The User is invited to enter another tracking number 19 in the tracking number field
10 2035 and click the Submit button 2036 to submit the next tracking request.

11 As depicted in FIG. 72, if the package has not yet been delivered, the System reports
12 the information available, e.g., the Status 2071, Last Scan 2072, Carrier 2078 and Tracking
13 number 2080. In such a case, the System asks the User if the User want to be notified when
14 the identified package is delivered. The System provides the User with input fields to register
15 to receive, and have sent, e-mail notification after the package is delivered. A user can enter
16 up to three names, 2091, 2093 and 2095, and up to three e-mail addresses, 2092, 2094, and
17 2096, to receive the delivery confirmation. The User submits the e-mail notification by
18 clicking on the Submit button 2036-1.

19 If the User completes the e-mail notification input fields with at least one e-mail name
20 and address, e.g., 2091 and 2092, the System creates an entry in a Track Response Table 30
21 which is a table contained in the System Database 22 as depicted in FIG. 5. The Track
22 Response Table entry contains the tracking number 19 earlier specified by the User and
23 displayed 2080 in the Tracking Report Screen depicted in FIG. 72. The System uses the
24 Track Response Table 30. The System performs Automatic Tracking for all of the package
25 tracking numbers contained in the Track Response Table 30 at the time that the Automatic
26 Tracking procedure is executed. Automatic Tracking is described in more detail below.

27 The User can then enter another tracking number 19 in the tracking number field 2035
28 and submit the new request by clicking on the Submit button 2036-2. When the Carrier

1 delivers the package, the System detects the delivery through one of several ways, as will be
2 further explained below, and then sends e-mail with a link to the web page with the most up to
3 date package status.

4 In an alternative embodiment, if the tracking number 19 is a Carrier tracking number,
5 the Server will validate the Carrier tracking number is a valid tracking number. If the Carrier
6 tracking number is not a valid number, the Server will return an invalid tracking number
7 error. If the Carrier tracking number is a valid number, the Server will not attempt to match
8 the number to a manifested package; the Server will track the package using the particular
9 Carrier's Internet tracking routine; and will return the tracking response to the Web Client of
10 the requesting Shipper/User.

11 In an alternative embodiment, if the tracking number 19 is a System tracking number,
12 then the System validates the System tracking number to ensure that it is a valid System
13 tracking number. If the System tracking number is not a valid tracking number, the Server
14 will return an invalid tracking number error. If the System tracking number is a valid tracking
15 number the Server queries the System database 22 to find the Carrier tracking number which
16 corresponds to the System tracking number. If no package record is found for the System
17 tracking number, then the Server will return an error to the Web Client of the requesting
18 Shipper. The error message will indicate that no package record was found; it will request the
19 user to verify that the tracking number was from a package which had been dropped off notify
20 the user that a package be tracked on the same day it shipped. If the package record is found
21 and the actual ship date is the same as the current date, the Server will return an error to the
22 Web Client of the requesting Shipper indicating that the user/Shipper cannot track the package
23 on the same day it is shipped.

24 In this alternative embodiment, once the Server has identified the Carrier tracking
25 number, the Server will track the package using the Carrier's Internet tracking routine. If the
26 tracking response from the Carrier's Internet tracking routing indicates an error, the Server
27 will make another attempt to track the package through the Carrier's Internet tracking routine.
28 If the second tracking request results in an error, the Server will notify the Web Client of the

1 requesting Shipper that the Carrier is unable to track the package, and will log a tracking
2 request error containing the Error Log number, the System tracking number, the Carrier
3 tracking number, the time and date the tracking request occurred, the error response reported
4 by the Carrier, and the Account Name of the user/Shipper making the tracking request, if that
5 information is available.

6 If, on the other hand, the Carrier returns a valid tracking response, the Server will
7 update the package status in the Server Database with the tracking response and will return the
8 detailed package information to the Web Client of the requesting user/Shipper from the
9 System Database as described below.

10 If the user supplied a Carrier tracking number, the Web Client will display the basic
11 tracking information provided by the particular Carrier's Internet tracking function. In one
12 embodiment of the invention, when the user provides a Carrier tracking number to track a
13 package, the user/Shipper's Web Client requires the user/Shipper to identify the Carrier.

14 If the user/Shipper provides a System tracking number, then if the user/Shipper is
15 logged on to the account, or otherwise enters valid logon information, that information must
16 correspond to the Account which shipped the package. In that case, the user/Shipper's Web
17 Client will display the following information: System tracking number; recipient address;
18 drop off location; Carrier and service; Carrier tracking number if available; actual ship date if
19 available; delivery address if available; delivery location if available; delivery date if
20 available; delivery time if available; signed for by information if available; package rate;
21 package weight; package dimensions; packaging; customer reference information; all scan
22 activity.

23 If on the other hand, the user/Shipper is not logged on to the account, fails to enter
24 valid logon information, or is logged on to an Account which does not correspond to the
25 Account which shipped the package, the user/Shipper's Web Client will display the following
26 information: System tracking number; recipient contact name; recipient company name;
27 Carrier and service; Carrier tracking number if available; actual ship date if available; delivery
28 address if available; delivery location if available; delivery date if available; delivery time if

1 available; signed for by information if available; package weight; customer reference
2 information; all scan activity.

3

4 2) AUTOMATIC TRACKING

5 Automatic Tracking of packages with Priority Delivery Notification is performed
6 when the package meets the following criteria: the package is a manifested package; the
7 package was shipped using Priority Delivery Notification; The actual ship date of the
8 package is the earlier than the current date; the package does not have the status of Delivered
9 or Lost.

10 Automatic Tracking of a particular package can be requested by the User, as depicted
11 in FIG. 72 and as was described above

12 If the package fulfills all of the above-described automatic tracking criteria, the
13 System places a record in the Track Response Table 30 and thereafter tracks the package on
14 some regular periodic time interval, for example, every four hours beginning at a staggered
15 start time. The start time is determined randomly and is staggered to occur at regular intervals
16 every four hours.

17 The System tracks the package using the specified Carrier's Internet tracking routine
18 as was previously described above. If the Carrier's Internet tracking routine returns a tracking
19 response that the tracking request is an error, the Server will track the package at the next
20 staggered tracking time. If the second tracking request response is also an error, the Server
21 will track the package at the next scheduled four hour interval. If the third tracking request
22 fails, the Server will log a tracking request error containing the following information: error
23 log number; System tracking number; Carrier tracking number; time and date the tracking
24 request occurred; and the error response from the Carrier. In the event that the third tracking
25 request fails, the Server will issue an Automatic Tracking Alert, for instance, to System
26 Support, containing the error log number.

27 If the tracking request results in a successful tracking response, the Server will update
28 the package status in the Package History Table 29 in the System Database 22 with the

1 tracking response information. If the package status returned is Delivered, the Server will
2 send delivery notification via e-mail to the notification address(e), e.g., 2091 - 2096 as
3 depicted in FIG. 72, as previously supplied by the Shipper/User. For a Delivered package, the
4 Server will update the Package History Table 29 in the System Database 22 to indicate that
5 the package has been delivered, that a delivery notification e-mail has been sent, and the date
6 and time that the e-mail was sent.

7 If the manifest package was shipped without Priority Delivery Notification, then on
8 any day after the actual ship date, as long as the status of the package is not Delivered or Lost,
9 the System will track the package every day at a non-peak period. If the tracking response is
10 an error, the Server will not attempt a second tracking request. If the tracking response is
11 successful, the System will update the package status in the System Database 22 with the
12 tracking response information.

13 The System will verify that all packages with a status of Delivered were delivered
14 within the guaranteed delivery time. For each Delivered package for which delivery was not
15 made with the guaranteed delivered time, the Server will generate a Delivery Exception
16 containing the following information: Carrier account number for the Drop Off Location;
17 Carrier tracking number; date of shipment; complete destination address information; delivery
18 exception ID number.

19 In one embodiment of the invention, there are four types of scripts, or procedures, that
20 run regularly to update the Package History Table 29 and the Track Response Table 30 in the
21 System database 22: 1) Track All Scripts, 2) Track Inbound Script, 3) Inbound Confirmation
22 Mail Script and 4) Delivery Confirmation Script. Each is described further below.

23 Track All Scripts are run on a regular basis. There is a Track All script for each
24 Carrier (e.g., FedEx, UPS, Airborne, and Yellow Freight). Each Track All script executes a
25 set of instructions that enumerate the package records in the Package History Table 29 to get
26 updated information from a specific Carrier's database. If a System tracking number has a
27 delivered tracking state, then the next time a user tries to get tracking information for this
28 particular tracking number, the System will not need to connect to the Carrier's web server to

1 get the package status information.

2 Track Inbound Script is run on a regular basis. Track Inbound Script searches the
3 Track Response Table 30 and enumerates all entries in the table to get updated information
4 from multiple Carriers' databases. If a tracking number has a delivered tracking state, then
5 Users are notified via e-mail that their packages have been delivered. Also, if the tracking
6 number is a System tracking number then the Package History Table 29 gets updated with this
7 delivered tracking state information for optimization purposes. By updating the Package
8 History Table 29, the System does not need to re-connect to carriers' web servers to get
9 information about a package that has been already delivered.

10 Inbound Confirmation Mail Script is run on a regular basis. It searches the Track
11 Response Table 30 for packages that have a delivered track state. When the script finds
12 delivered packages for Users who requested to receive e-mail notifications, it sends e-mail
13 notifications to them with delivery information.

14 Delivery Confirmation Script is run on a regular basis. It searches the Package History
15 Table 29 and enumerates all entries in the table for which the User has requested delivery
16 notification when the subject package has been delivered to destination. When the script finds
17 delivered packages in the Package History Table 29 for Users who requested to receive e-mail
18 notifications, it sends e-mail notifications to them with delivery information.

19

20 3.) COUNTER MANIFEST SYSTEM (CMS) TRACKING

21 As an alternative to using an Internet embodiment of the invention, a user can track
22 packages by using the counter Manifest System CMS feature of the invention. In such an
23 embodiment, CMS is a standalone-dedicated system that uses a connection to one of the
24 System's servers (the "CMS Server") to track packages. CMS can be connected to one of the
25 System servers in many different ways, including among others, DSL dial-up, ISDN dial-up,
26 Modems, T1 line, Hughes VSAT link or other communications systems.

27 In the CMS environment, a company maintains a connection for the CMS to the CMS
28 Server to track packages for customers. The CMS User track packages for the CMS User's

1 customers by entering a tracking number in the CMS tracking page. CMS tracking allows a
2 customer to register for a delivery confirmation to receive e-mail notifications when packages
3 are delivered. Also, customers can register using the System's Internet embodiment to receive
4 inbound delivery notifications for the packages that are shipped using the CMS.

5 FIG. 73 is a graphic representation of an exemplary CMS online user input screen.
6 The User inputs a tracking number 19 in the input tracking number field 2100 and submits a
7 request to the System to track the package associated with the input tracking number 19 by
8 clicking on the "Track" button 2102.

9 FIG. 74 is a graphic representation of an exemplary CMS display screen that reports a
10 successful tracking result 2103. After reading the tracking report, the User can request that
11 another package be tracked by clicking the "Track Another" button 2104.

12 FIG. 75 is a graphic representation of an exemplary CMS error tracking report display
13 screen. The tracking number 19 is displayed with an error message 2105. The user can
14 request that another package be tracked by clicking the "Track Another" button 2104.

15

16 4.) MANIFEST AND INBOUND TRACKING

17 A User can register with the System to establish a shipping account. Once a User has
18 established an account, the System will record in the System database 22 information for
19 every package shipped under the User's account. The information contained in the System
20 database 22 under the User's account is referred to as the User's Shipping Log.

21 The System provides the User with online capability to request information about the
22 User's Shipping Log. FIG. 76 is a graphic representation of an exemplary embodiment of a
23 "My Tracking" Screen. On the viewer's left side of the My Tracking Screen display, a "My
24 Tracking submenu 2110 is provided to allow the User to select options. By clicking on and
25 highlighting one of the My Tracking submenu 2110 options, the User can select to view the
26 User's Account's Shipping Log 2111, to View Inbound Packages 2112, to Add Inbound
27 Packages 2113, and to indicate Tracking Preferences 2114. The User can also input a tracking
28 number 19 into the Quick Track input field 2115 and request that the System track the

1 identified package by clicking the “go” button 2116.

2 FIG. 77 is a graphic representation of an exemplary embodiment of a Shipping Log
3 Screen. A logged on registered User enters this display screen by clicking on the My
4 Tracking submenu 2110 User’s Account’s Shipping Log option 2111. If the User is both
5 logged on and registered, then in response to the User clicking on the My Tracking submenu
6 2110, User’s Account’s Shipping Log option 2111, the System presents a Shipping Log
7 Screen with certain selection criteria. In the embodiment depicted in FIG. 77, the System
8 initializes selection criteria fields with certain default values. For instance, the Shipping Log
9 will search the system database 22 for the name of the individual to whom the particular
10 account belongs and displays the name of the person 2109. Further, the Shipping Log
11 application will search the System database 22 for all packages shipped under the User’s
12 account that conform to the criteria specified in the input fields of the FIG. 77 screen.

13 The Shipping Log Screen provides for User selection of the Type of package, e.g.,
14 “All Packages” from the Display option 2118 and Display option pull-down menu button
15 2117; “For the Past” time period 2119, e.g., for the past “Month” during which packages were
16 shipped; and “Sort By” 2121-2122 which allows the User to select the order of the Shipping
17 Log report entries.

18 In response to the Shipping Log request, the System creates a list and displays an
19 online Shipping Log record for the packages shipped under the User’s account and which fit
20 the selection criteria. For each such package, the System displays: the Status of the package
21 2125 and the tracking number 2080, the name of the shipper 2126, the Carrier Service 2127,
22 the name of the Carrier 2128, the Ship Date 2129, and the Delivery Date and time 2129-2130.
23 If the User wants more information for a particular package in the Shipping Log, the User
24 highlights the appropriate record in the list and clicks the “Details” button 2124.

25 FIG. 78 is a graphic representation of an exemplary embodiment of a Detailed
26 Shipping Log Entry Screen which is displayed if the User highlights the appropriate record in
27 the Shipping Log list and clicks the “Details” button 2124. The System displays the Shipping
28 Log date and time 2140, the System tracking number 2141, the estimated weight of the

1 package 2142, the billed weight of the package 2143, the Packaging type 2144, the Carrier
2 and Service 2145, a description of the goods shipped 2146, the shipping status 2071, the
3 Carrier tracking number 2080, the Shipped Date 2147, the Expected data of arrival 2148, the
4 Last Scan information 2072, the Recipient's name and address 2149, the Return name and
5 address 2150, the Ship from location 2153, the base shipping service charge 2151, and the
6 total shipping charge 2152.

7 FIG. 79 is a graphic representation of an exemplary embodiment of a detailed "Quick
8 Track" result screen which displays the same type of information described above for FIG. 78.
9 The way that a User obtains this display is to enter a tracking number 19 into the Quick Track
10 input field 2115, and by then clicking on the "go" button 2116.

11 A registered logged on User can view inbound packages if the User first identifies to
12 the System package tracking numbers for each of the packages the status of which the User is
13 interested in monitoring. FIG. 80 is a graphic display of an exemplary embodiment of an
14 "Add Inbound Packages" Screen. The User requests this screen by clicking on the "Add
15 Inbound Package" option 2113 of the "My Tracking" submenu 2110. The User inputs
16 identification information, such as the tracking number 19 in the input tracking number field
17 2035, the Carrier 2128, and the Order/Item 2161. The User can also specify that the System is
18 to provide e-mail notification 2162 with an e-mail message 2163. By clicking on the "E-mail
19 Others" button, the User can request an "E-mail Others" screen providing input similar to that,
20 items 2091-2097, and 2036-1, described above for the tracking screen depicted in FIG. 72.
21 By clicking on the "Add" button 2165, the User requests that the record identified in the
22 User's input be added to a list for that User of Inbound Packages to be monitored.

23 Once the User has input the identification information for the packages the status of
24 which the User wants to monitor, and added all such records to the User's Inbound Tracking
25 List, the User can then view the status of those identified Inbound packages. To do so, the
26 user clicks on the "View Inbound Packages" option 2112 of the "My Tracking" submenu
27 2110. FIG. 81 is a graphic representation of an exemplary embodiment of a "View Inbound
28 Packages" Summary Screen. Similar to the Shipping Log Screen as discussed above in

1 relation to FIG. 77, the View Inbound Packages Summary Screen displays information about
2 packages identified by the User as Inbound Packages. As depicted on FIG. 81, the User can
3 specify reporting criteria such as Display limitations 2117-2118, and sorting requests 2121-
4 2122. The User can request details about a particular package by highlighting the reporting
5 line on the screen and clicking the “Details” button 2124. The User can delete a particular
6 package from Inbound Package Tracking by highlighting the reporting line on the screen and
7 clicking the “Delete” button 2170.

8 FIG. 82 is a graphic representation of a View Inbound Packages Detail Screen. The
9 type of information displayed on this screen is similar to the type of information described
10 with respect to the Shipping Log Detail Screen as depicted in FIG. 78 and discussed above.

11

12 ILLUSTRATIVE EMBODIMENTS

13 Although this invention has been described in certain specific embodiments, many
14 additional modifications and variations would be apparent to those skilled in the art. It is,
15 therefore, to be understood that this invention may be practiced otherwise than as specifically
16 described. Thus, the embodiments of the invention described herein should be considered in
17 all respects as illustrative and not restrictive, the scope of the invention to be determined by
18 the appended claims and their equivalents rather than the foregoing description.

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1 WHAT IS CLAIMED IS:

2

3 1. A shipping management computer system, said computer system programmed
4 to:

5 display to each of a plurality of users upon each user's request a preview of shipping
6 rates for the particular user to ship a particular package, wherein each user accesses the
7 computer system over a global communications network using a client computer device,
8 wherein each user having an individual electronic connection to the global communications
9 network.

10

11 2. A shipping management computer system, said computer system programmed
12 to:

13 calculate for each of a plurality of users upon each user's request a shipping rate for
14 each of a plurality of services offered by each of a plurality of carriers for shipping a
15 particular parcel, wherein each user accesses the computer system over a global
16 communications network using a client computer device, wherein each user client computer
17 device having an individual electronic connection to the global communications network.

18

19 3. A shipping management computer system, said computer system programmed
20 to:

21 determine for each of a plurality of users upon each user's request a delivery schedule
22 for each of a plurality of services offered by each of a plurality of carriers for shipping a
23 particular parcel, wherein each user accesses the computer system over a global
24 communications network using a client computer device, wherein each user client computer
25 device having an individual electronic connection to the global communications network.

26

27 4. A computer system for displaying to each of a plurality of users upon each
28 user's request a preview of shipping rates for the particular user to ship a particular package,
29 wherein each user accesses the computer system over a global communications network

1 using a client computer device, each user having an individual electronic connection to the
2 global communications network, said computer system programmed to:

3 calculate for each of a plurality of services offered by each of a plurality of carriers a
4 shipping rate for shipping the particular parcel according to a set of parcel characteristics
5 shipping rules for the particular carrier and according to a set of pricing rules for each
6 particular service offered by the particular carrier as applied to a set of parcel specifications
7 for the particular parcel input by the particular user and as applied to an origin postal code
8 and a destination postal code input by the particular user; and

9 generate an online comparison display of the calculated shipping rates to a display
10 monitor configured with the client computer device of the particular user.

11

12 5. The computer system of Claim 4, said computer system programmed to:
13 determine a delivery schedule for each of the plurality of services offered by each of
14 the plurality of carriers for shipping the particular parcel .

15

16 6. The computer system of Claim 5 wherein the generated online comparison
17 display further comprises a schedule of delivery times for each of the services for delivering
18 the particular package.

19

20 7. A computer system for previewing shipping rates for shipping each of a
21 plurality of parcels to be shipped by one of a plurality of users according to a plurality of
22 carriers, wherein each user accesses the computer system over a global communications
23 network using a client computer device, each user client computer device having an
24 individual electronic connection to the global communications network, said computer
25 system programmed to:

26 collect as parcel specifications for a particular parcel a user input from one of the
27 plurality of users wherein said user input comprising at least one of: a package type, package
28 dimensions, package weight, and a value of the particular parcel;

29 collect from the particular user a user input of an origin zip code and an exemplary

1 destination zip code; and

2 generate an online comparison display to a display monitor configured with the user
3 client computer device of the particular user a preview of shipping rates for a plurality of
4 services offered by a plurality of carriers for shipping the particular parcel wherein said
5 preview shipping rates are calculated according to a set of parcel characteristics shipping
6 rules for each of the plurality of carriers and according to a set of pricing rules for each of the
7 plurality of services offered by each particular carrier as applied to the parcel specifications
8 and as applied to the origin zip code and the exemplary destination zip code.

9

10 8. A shipping management computer system, said shipping management
11 computer system programmed to:

12 compare each shipping rate for shipping a particular parcel with each of a plurality of
13 services offered by each of a plurality of carriers with a shipping rate for shipping the
14 particular parcel with each other service of the plurality of services offered by each of a
15 plurality of carriers.

16

17 9. The shipping management computer system of Claim 8, said shipping
18 management computer system further programmed to:

19 determine the service and the carrier that offer the lowest shipping rate.

20

21 10. The shipping management computer system of Claim 9, said shipping
22 management computer system further programmed to:

23 generate a report of the service and the carrier that offer the lowest shipping rate.

24

25 11. The shipping management computer system of Claim 10 wherein said report
26 of the service and the carrier that offer the lowest shipping rate comprises a visual display.

27

28 12. The shipping management computer system of Claim 10 wherein said report
29 of the service and the carrier that offer the lowest shipping rate comprises an audible

1 announcement.

2

3 13. The shipping management computer system of Claim 10 wherein said report
4 comprises a visual display of a graphic representation of the service and the carrier that offer
5 the lowest shipping rate and of the shipping rate.

6

7 14. The shipping management computer system of Claim 10 wherein said report
8 comprises an audible announcement of the name of service and the carrier that offer the
9 lowest shipping rate and of the shipping rate.

10

11 15. A shipping management computer system, said shipping management
12 computer system programmed to:

13 compare each delivery schedule for shipping a particular parcel with each of a
14 plurality of services offered by each of a plurality of carriers with a delivery schedule for
15 shipping the particular parcel with each other service of the plurality of services offered by
16 each of a plurality of carriers.

17

18 16. The shipping management computer system of Claim 15, said shipping
19 management computer system further programmed to:

20 determine the service and the carrier that offer the earliest delivery schedule.

21

22 17. The shipping management computer system of Claim 16, said shipping
23 management computer system further programmed to:

24 generate a report of the service and the carrier that offer the earliest delivery schedule.

25

26 18. The shipping management computer system of Claim 17 wherein said report
27 of the service and the carrier that offer the earliest delivery schedule comprises a visual
28 display.

29

1 19. The shipping management computer system of Claim 17 wherein said report
2 of the service and the carrier that offer the earliest delivery schedule comprises an audible
3 announcement.

4

5 20. The shipping management computer system of Claim 17 wherein said report
6 comprises a visual display of a graphic representation of the service and the carrier that offer
7 the earliest delivery schedule and of the delivery schedule.

8

9 21. The shipping management computer system of Claim 17 wherein said report
10 comprises an audible announcement of the name of service and the carrier that offer the
11 earliest delivery schedule and of the delivery schedule.

12

13 22. A method using a computer system for managing shipping of a plurality of
14 parcels shipped by any one of a plurality of carriers, the method comprising:

15 displaying to each of a plurality of users upon each user's request a preview of
16 shipping rates for the particular user to ship a particular package, wherein each user accesses
17 the computer system over a global communications network using a client computer device,
18 wherein each user having an individual electronic connection to the global communications
19 network.

20

21 23. A method using a computer system for managing shipping of a plurality of
22 parcels shipped by any one of a plurality of carriers, the method comprising:

23 calculating for each of a plurality of users upon each user's request a shipping rate for
24 each of a plurality of services offered by each of a plurality of carriers for shipping a
25 particular parcel, wherein each user accesses the computer system over a global
26 communications network using a client computer device, wherein each user client computer
27 device having an individual electronic connection to the global communications network.

28

29 24. A method using a computer system for managing shipping of a plurality of

1 parcels shipped by any one of a plurality of carriers, the method comprising:
2 determining for each of a plurality of users upon each user's request a delivery
3 schedule for each of a plurality of services offered by each of a plurality of carriers for
4 shipping a particular parcel, wherein each user accesses the computer system over a global
5 communications network using a client computer device, wherein each user client computer
6 device having an individual electronic connection to the global communications network.
7

8 25. A method using a computer system for displaying to each of a plurality of
9 users upon each user's request a preview of shipping rates for the particular user to ship a
10 particular package, wherein each user accesses the computer system over a global
11 communications network using a client computer device, each user having an individual
12 electronic connection to the global communications network, said method comprising
13 calculating for each of a plurality of services offered by each of a plurality of carriers
14 a shipping rate for shipping the particular parcel according to a set of parcel characteristics
15 shipping rules for the particular carrier and according to a set of pricing rules for each
16 particular service offered by the particular carrier as applied to a set of parcel specifications
17 for the particular parcel input by the particular user and as applied to an origin postal code
18 and a destination postal code input by the particular user; and
19 generating an online comparison display of the calculated shipping rates to a display
20 monitor configured with the client computer device of the particular user.
21

22 26. The method of Claim 25, said method further comprising:
23 determining a delivery schedule for each of the plurality of services offered by each
24 of the plurality of carriers for shipping the particular parcel .
25

26 27. The method of Claim 26 wherein the generated online comparison display
27 further comprises a schedule of delivery times for each of the services for delivering the
28 particular package.
29

1 28. A method using a computer system for previewing shipping rates for shipping
2 each of a plurality of parcels to be shipped by one of a plurality of users according to a
3 plurality of carriers, wherein each user accesses the computer system over a global
4 communications network using a client computer device, each user client computer device
5 having an individual electronic connection to the global communications network, said
6 method comprising:

7 collecting as parcel specifications for a particular parcel a user input from one of the
8 plurality of users wherein said user input comprising at least one of: a package type, package
9 dimensions, package weight, and a value of the particular parcel;

10 collecting from the particular user a user input of an origin zip code and an exemplary
11 destination zip code; and

12 generating an online comparison display to a display monitor configured with the user
13 client computer device of the particular user a preview of shipping rates for a plurality of
14 services offered by a plurality of carriers for shipping the particular parcel wherein said
15 preview shipping rates are calculated according to a set of parcel characteristics shipping
16 rules for each of the plurality of carriers and according to a set of pricing rules for each of the
17 plurality of services offered by each particular carrier as applied to the parcel specifications
18 and as applied to the origin zip code and the exemplary destination zip code.

19
20 29. A method using a computer system for managing shipping of a plurality of
21 parcels shipped by any one of a plurality of carriers, the method comprising:

22 comparing each shipping rate for shipping a particular parcel with each of a plurality
23 of services offered by each of a plurality of carriers with a shipping rate for shipping the
24 particular parcel with each other service of the plurality of services offered by each of a
25 plurality of carriers.

26
27 30. The method of Claim 29, said method further comprising:

28 determining the service and the carrier that offer the lowest shipping rate.

29

1 31. The method of Claim 30, said method further comprising:
2 generating a report of the service and the carrier that offer the lowest shipping rate.
3

4 32. The method of Claim 31 wherein said report of the service and the carrier that
5 offer the lowest shipping rate comprises a visual display.
6

7 33. The method of Claim 31 wherein said report of the service and the carrier that
8 offer the lowest shipping rate comprises an audible announcement.
9

10 34. The method of Claim 31 wherein said report comprises a visual display of a
11 graphic representation of the service and the carrier that offer the lowest shipping rate and of
12 the shipping rate.
13

14 35. The method of Claim 31 wherein said report comprises an audible
15 announcement of the name of service and the carrier that offer the lowest shipping rate and of
16 the shipping rate.
17

18 36. A method using a computer system for managing shipping of a plurality of
19 parcels shipped by any one of a plurality of carriers, the method comprising:
20 comparing each delivery schedule for shipping a particular parcel with each of a
21 plurality of services offered by each of a plurality of carriers with a delivery schedule for
22 shipping the particular parcel with each other service of the plurality of services offered by
23 each of a plurality of carriers.
24

25 37. The method of Claim 36, said method further comprising:
26 determining the service and the carrier that offer the earliest delivery schedule.
27

28 38. The method of Claim 37, said method further comprising:
29 generating a report of the service and the carrier that offer the earliest delivery

1 schedule.

2

3 39. The method of Claim 38 wherein said report of the service and the carrier that
4 offer the earliest delivery schedule comprises a visual display.

5

6 40. The method of Claim 38 wherein said report of the service and the carrier that
7 offer the earliest delivery schedule comprises an audible announcement.

8

9 41. The method of Claim 38 wherein said report comprises a visual display of a
10 graphic representation of the service and the carrier that offer the earliest delivery schedule
11 and of the delivery schedule.

12

13 42. The method of Claim 38 wherein said report comprises an audible
14 announcement of the name of service and the carrier that offer the earliest delivery schedule
15 and of the delivery schedule.

16

17 43. A computer program product embodying computer program instructions for
18 execution by a computer system for managing shipping of a plurality of parcels shipped by
19 any one of a plurality of carriers, the computer program product comprising:

20 a set of program instructions for displaying to each of a plurality of users upon each
21 user's request a preview of shipping rates for the particular user to ship a particular package,
22 wherein each user accesses the computer system over a global communications network
23 using a client computer device, wherein each user having an individual electronic connection
24 to the global communications network.

25

26 44. A computer program product embodying computer program instructions for
27 execution by a computer system for managing shipping of a plurality of parcels shipped by
28 any one of a plurality of carriers, the computer program product comprising:

29 a set of program instructions for calculating for each of a plurality of users upon each

1 user's request a shipping rate for each of a plurality of services offered by each of a plurality
2 of carriers for shipping a particular parcel, wherein each user accesses the computer system
3 over a global communications network using a client computer device, wherein each user
4 client computer device having an individual electronic connection to the global
5 communications network.

6

7 45. A computer program product embodying computer program instructions for
8 execution by a computer system for managing shipping of a plurality of parcels shipped by
9 any one of a plurality of carriers, the computer program product comprising:

10 a set of program instructions for determining for each of a plurality of users upon
11 each user's request a delivery schedule for each of a plurality of services offered by each of a
12 plurality of carriers for shipping a particular parcel, wherein each user accesses the computer
13 system over a global communications network using a client computer device, wherein each
14 user client computer device having an individual electronic connection to the global
15 communications network.

16

17 46. A computer program product embodying computer program instructions for
18 execution by a computer system for displaying to each of a plurality of users upon each user's
19 request a preview of shipping rates for the particular user to ship a particular package,
20 wherein each user accesses the computer system over a global communications network
21 using a client computer device, each user having an individual electronic connection to the
22 global communications network, said computer program product comprising:

23 a set of program instructions for calculating for each of a plurality of services offered
24 by each of a plurality of carriers a shipping rate for shipping the particular parcel according
25 to a set of parcel characteristics shipping rules for the particular carrier and according to a set
26 of pricing rules for each particular service offered by the particular carrier as applied to a set
27 of parcel specifications for the particular parcel input by the particular user and as applied to
28 an origin postal code and a destination postal code input by the particular user; and

29 a set of program instructions for generating an online comparison display of the

1 calculated shipping rates to a display monitor configured with the client computer device of
2 the particular user.

3

4 47. The computer program product of Claim 46, said computer program product
5 further comprising:

6 a set of program instructions for determining a delivery schedule for each of the
7 plurality of services offered by each of the plurality of carriers for shipping the particular
8 parcel .

9

10 48. The computer program product of Claim 47 wherein the generated online
11 comparison display further comprises a schedule of delivery times for each of the services for
12 delivering the particular package.

13

14 49. A computer program product embodying computer program instructions for
15 execution by a computer system for previewing shipping rates for shipping each of a plurality
16 of parcels to be shipped by one of a plurality of users according to a plurality of carriers,
17 wherein each user accesses the computer system over a global communications network
18 using a client computer device, each user client computer device having an individual
19 electronic connection to the global communications network, said computer program product
20 comprising:

21 a set of program instructions for collecting as parcel specifications for a particular
22 parcel a user input from one of the plurality of users wherein said user input comprising at
23 least one of: a package type, package dimensions, package weight, and a value of the
24 particular parcel;

25 a set of program instructions for collecting from the particular user a user input of an
26 origin zip code and an exemplary destination zip code; and

27 a set of program instructions for generating an online comparison display to a display
28 monitor configured with the user client computer device of the particular user a preview of
29 shipping rates for a plurality of services offered by a plurality of carriers for shipping the

1 particular parcel wherein said preview shipping rates are calculated according to a set of
2 parcel characteristics shipping rules for each of the plurality of carriers and according to a set
3 of pricing rules for each of the plurality of services offered by each particular carrier as
4 applied to the parcel specifications and as applied to the origin zip code and the exemplary
5 destination zip code.

6

7 50. A computer program product embodying computer program instructions for
8 execution by a computer system for managing shipping of a plurality of parcels shipped by
9 any one of a plurality of carriers, the computer program product comprising:

10 a set of program instructions for comparing each shipping rate for shipping a
11 particular parcel with each of a plurality of services offered by each of a plurality of carriers
12 with a shipping rate for shipping the particular parcel with each other service of the plurality
13 of services offered by each of a plurality of carriers.

14

15 51. The computer program product of Claim 50, said computer program product
16 further comprising:

17 a set of program instructions for determining the service and the carrier that offer the
18 lowest shipping rate.

19

20 52. The computer program product of Claim 51, said computer program product
21 further comprising:

22 a set of program instructions for generating a report of the service and the carrier that
23 offer the lowest shipping rate.

24

25 53. The computer program product of Claim 52 wherein said report of the service
26 and the carrier that offer the lowest shipping rate comprises a visual display.

27

28 54. The computer program product of Claim 52 wherein said report of the service
29 and the carrier that offer the lowest shipping rate comprises an audible announcement.

1

2 55. The computer program product of Claim 52 wherein said report comprises a
3 visual display of a graphic representation of the service and the carrier that offer the lowest
4 shipping rate and of the shipping rate.

5

6 56. The computer program product of Claim 52 wherein said report comprises an
7 audible announcement of the name of service and the carrier that offer the lowest shipping
8 rate and of the shipping rate.

9

10 57. A computer program product embodying computer program instructions for
11 execution by a computer system for managing shipping of a plurality of parcels shipped by
12 any one of a plurality of carriers, the computer program product comprising:

13 a set of program instructions for comparing each delivery schedule for shipping a
14 particular parcel with each of a plurality of services offered by each of a plurality of carriers
15 with a delivery schedule for shipping the particular parcel with each other service of the
16 plurality of services offered by each of a plurality of carriers.

17

18 58. The computer program product of Claim 57, said computer program product
19 further comprising:

20 a set of program instructions for determining the service and the carrier that offer the
21 earliest delivery schedule.

22

23 59. The computer program product of Claim 58, said computer program product
24 further comprising:

25 generating a report of the service and the carrier that offer the earliest delivery
26 schedule.

27

28 60. The computer program product of Claim 59 wherein said report of the service
29 and the carrier that offer the earliest delivery schedule comprises a visual display.

1

2 61. The computer program product of Claim 59 wherein said report of the service
3 and the carrier that offer the earliest delivery schedule comprises an audible announcement.

4

5 62. The computer program product of Claim 59 wherein said report comprises a
6 visual display of a graphic representation of the service and the carrier that offer the earliest
7 delivery schedule and of the delivery schedule.

8

9 63. The computer program product of Claim 59 wherein said report comprises an
10 audible announcement of the name of service and the carrier that offer the earliest delivery
11 schedule and of the delivery schedule.

12

13

14

15

16 64. The computer program product of Claim 59 wherein said report comprises an
17 audible announcement of the name of service and the carrier that offer the earliest delivery
18 schedule and of the delivery schedule.

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REPORTING SHIPPING RATES AND DELIVERY SCHEDULES FOR MULTIPLE SERVICES AND MULTIPLE CARRIERS

4 ABSTRACT OF THE INVENTION

The present invention provides apparatus, systems and methods for displaying to each of a plurality of users upon each user's request a preview of shipping rates and delivery schedules for the particular user to ship a particular package, wherein each user accesses the computer system over a global communications network using a client computer device, and wherein each user has an individual electronic connection to the global communications network. The present invention compares shipping rates and delivery schedules for each service and each carrier for shipping a particular package and reports the carrier and service offering the lowest rate or the fastest delivery schedule, according to the user's option.

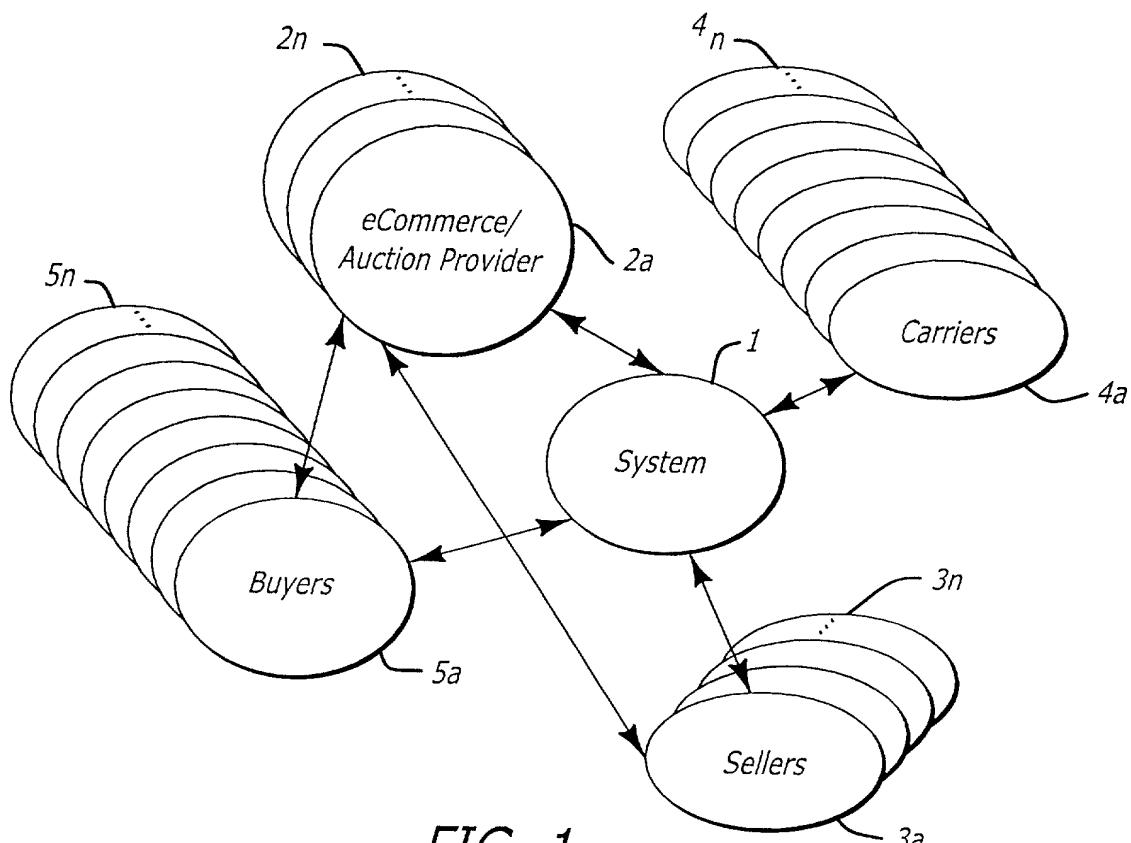


FIG. 1

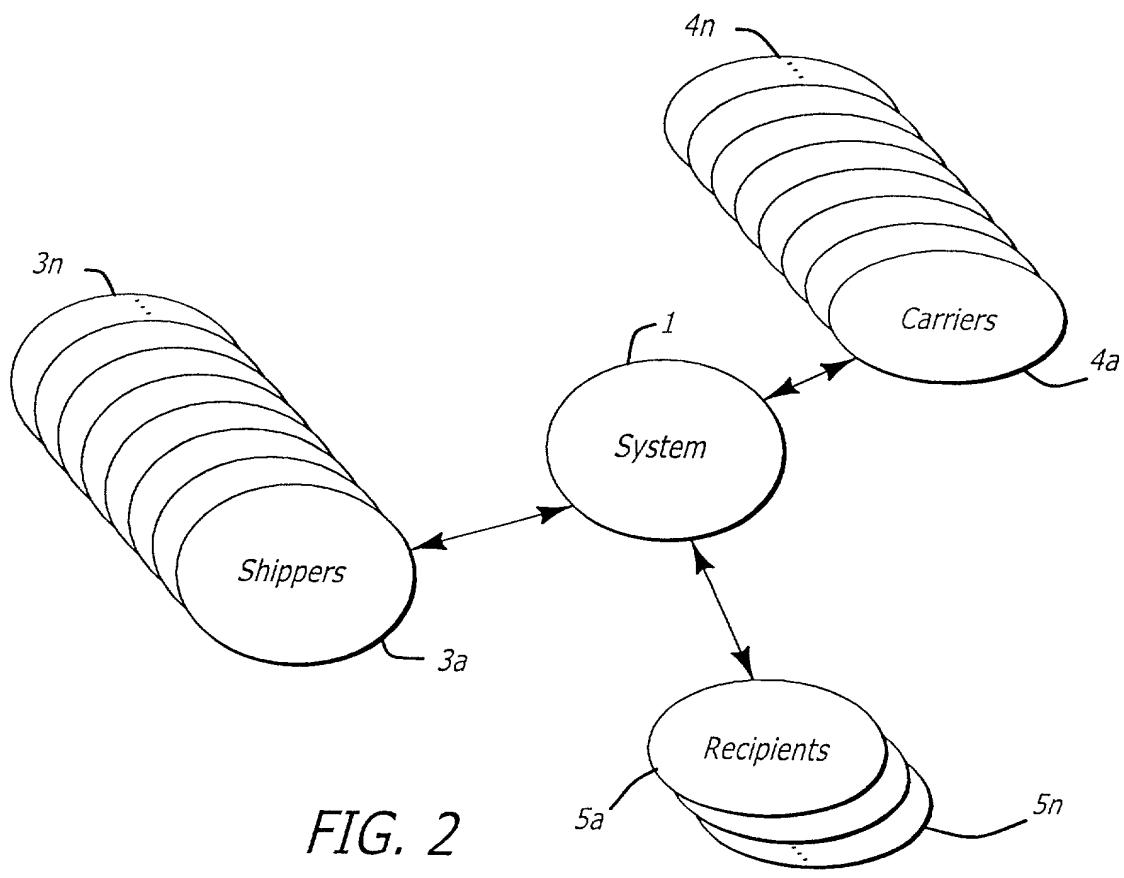


FIG. 2

FIG. 3

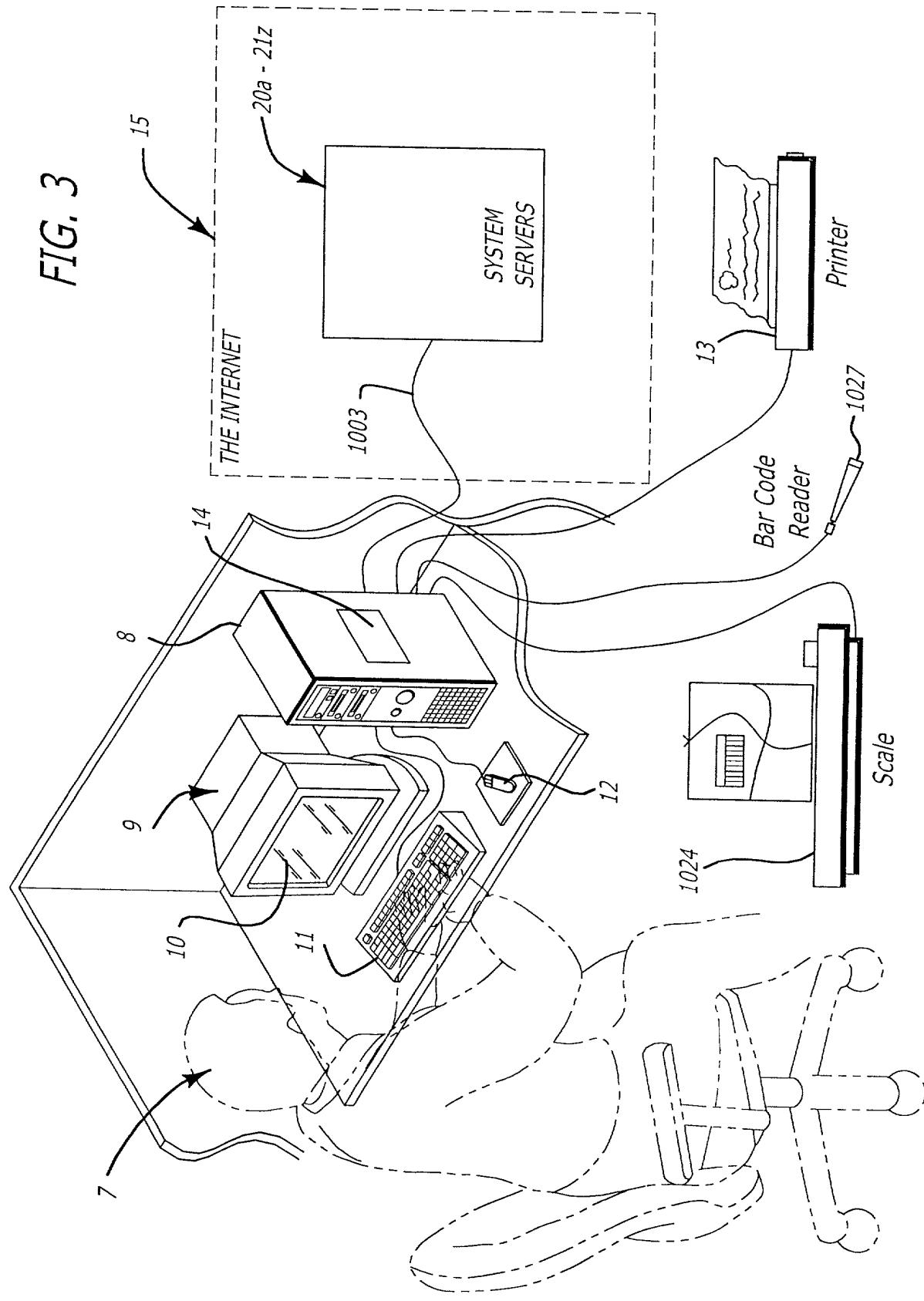
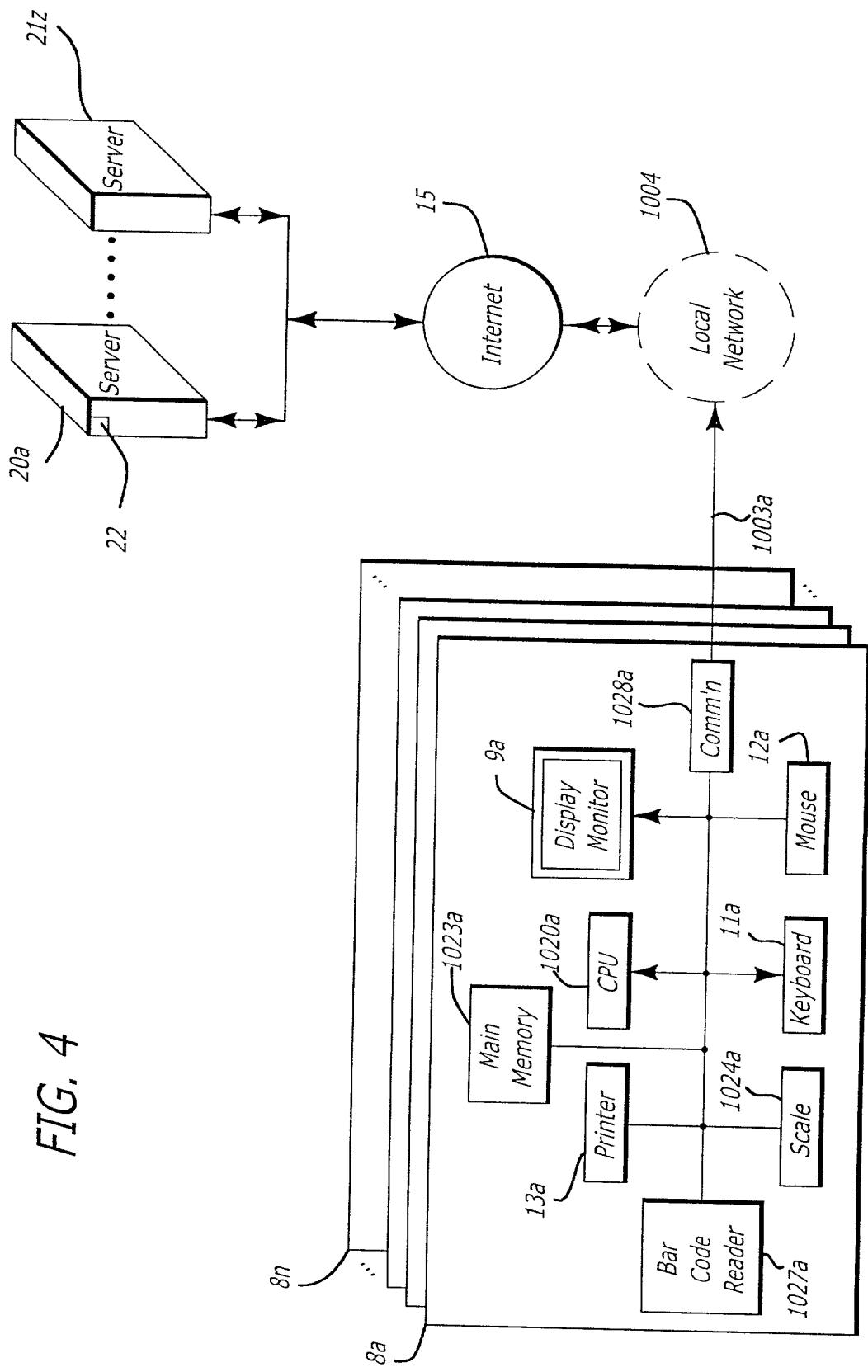
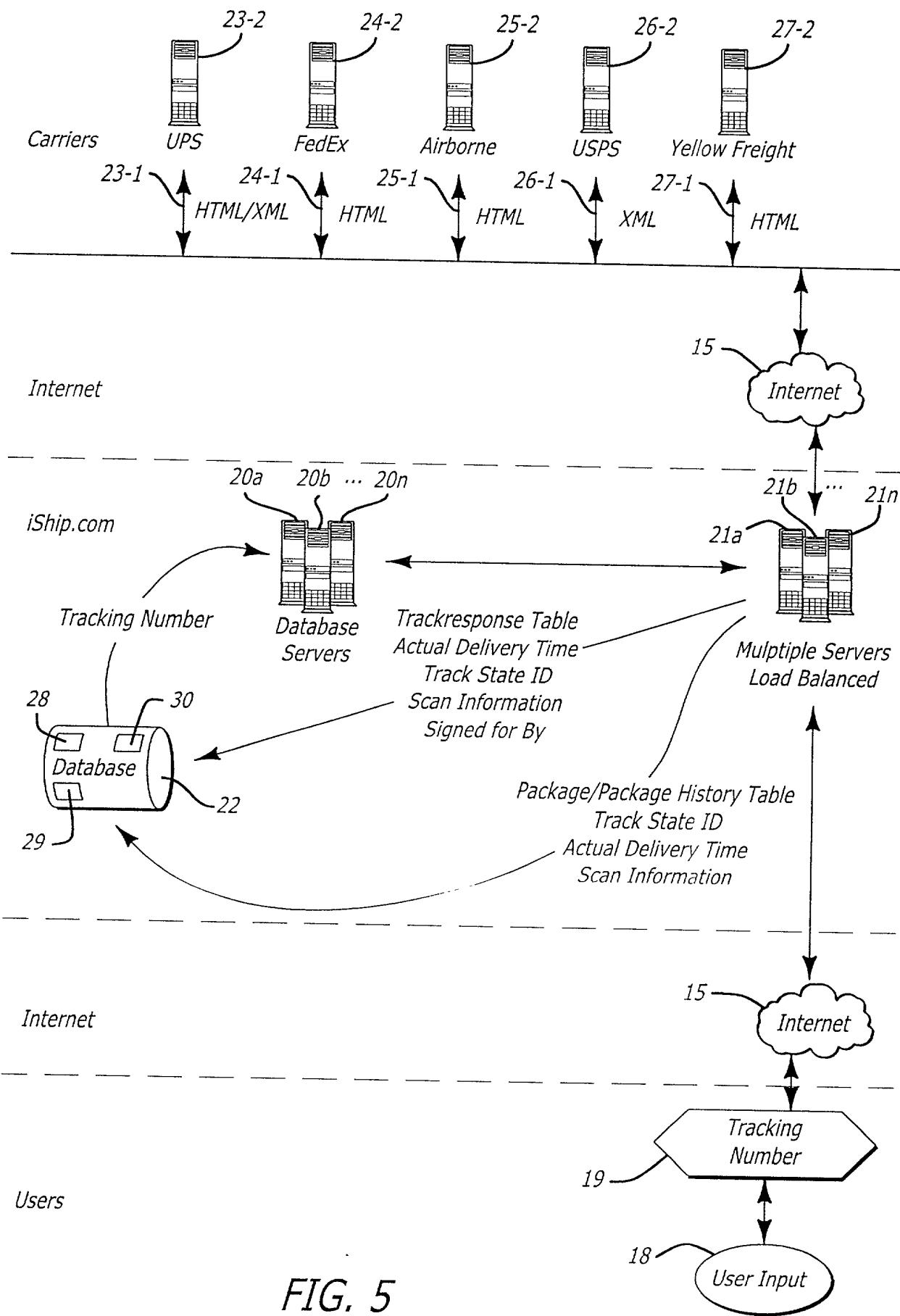


FIG. 4





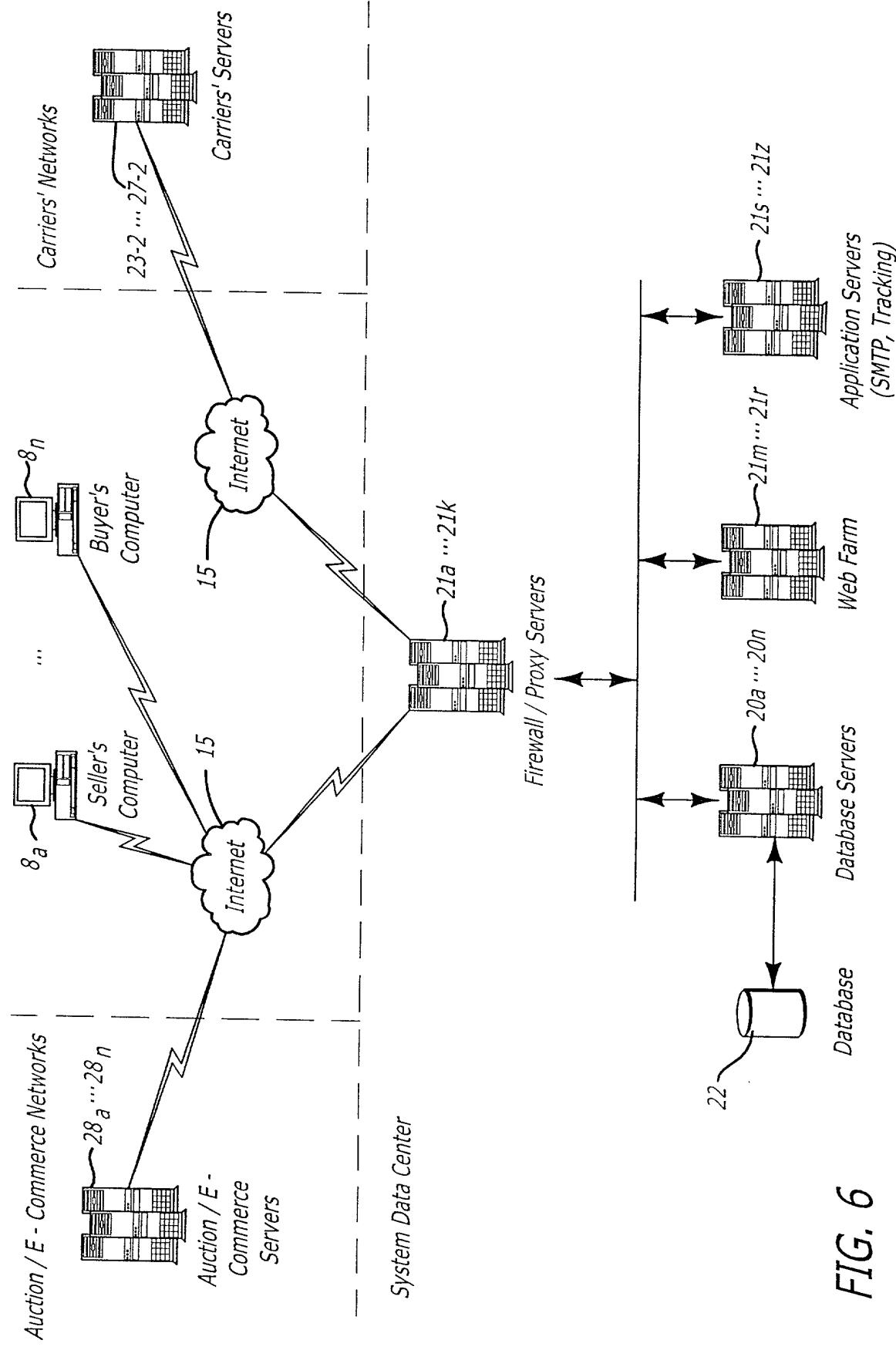


FIG. 6

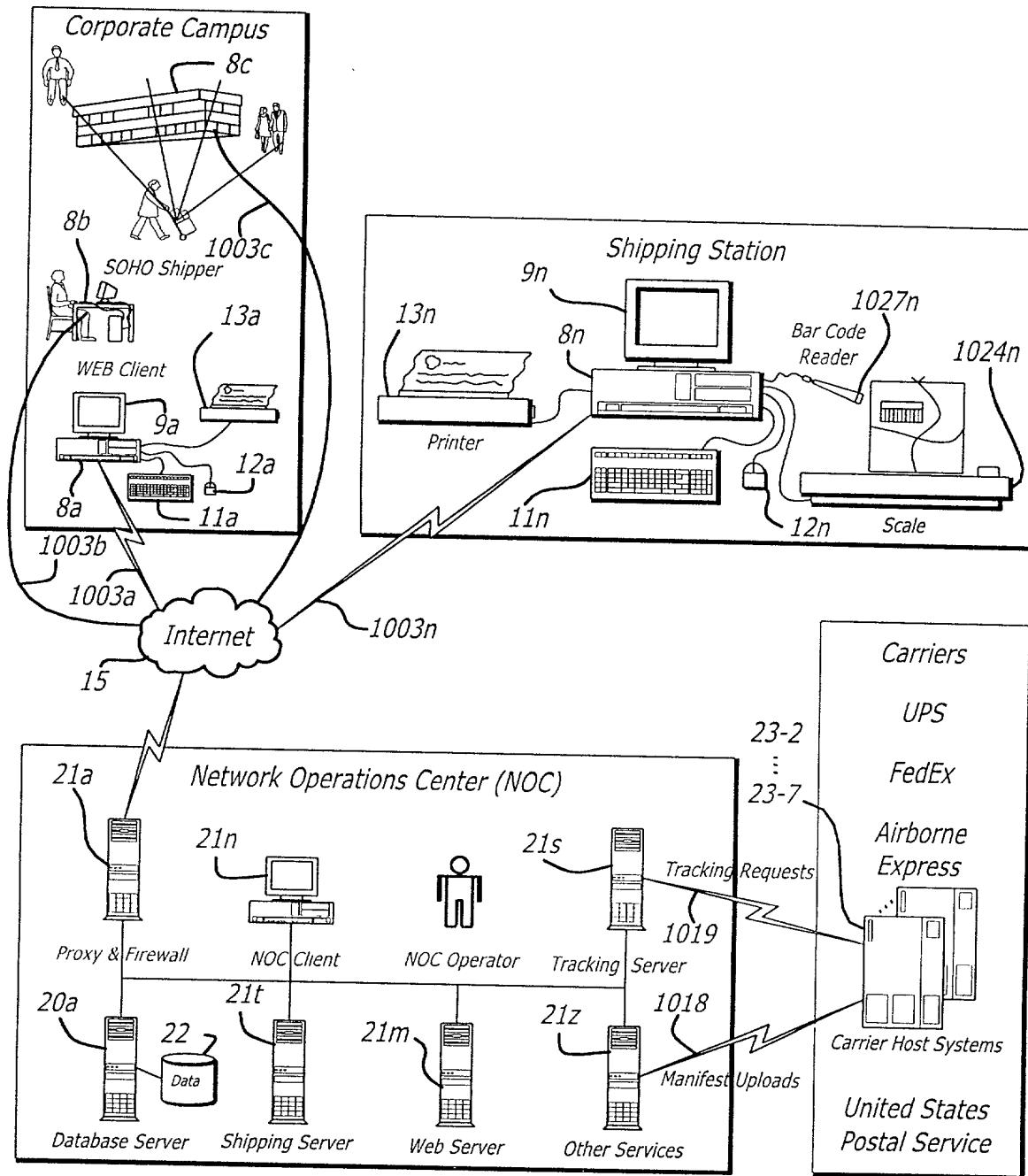


FIG. 7

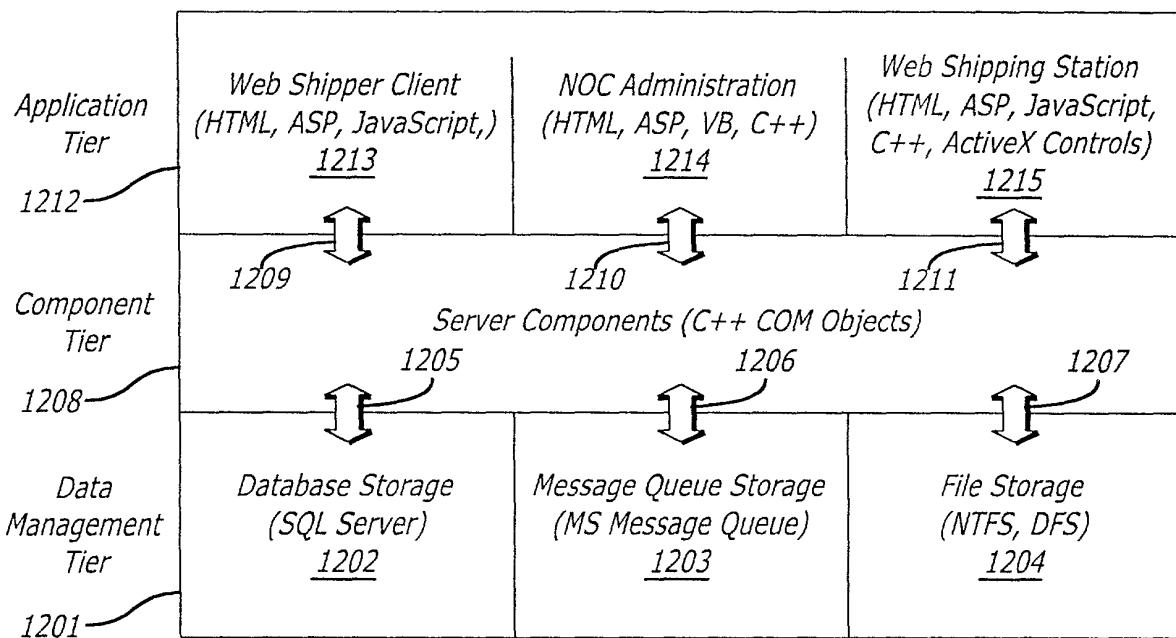


FIG. 8

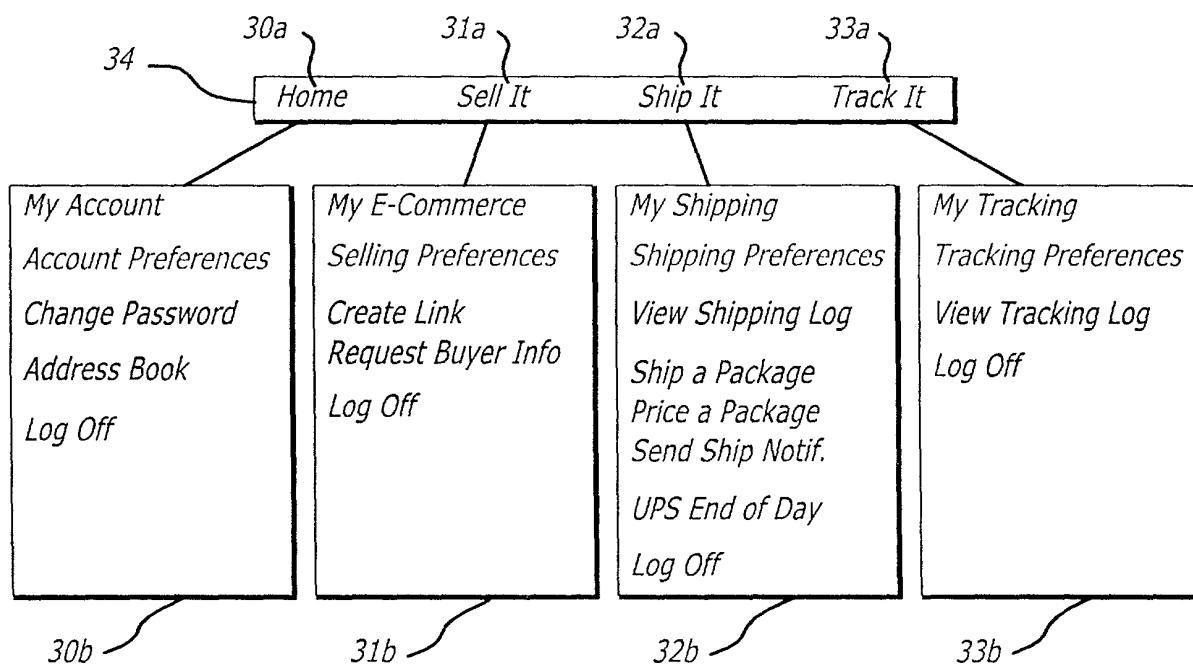


FIG. 9

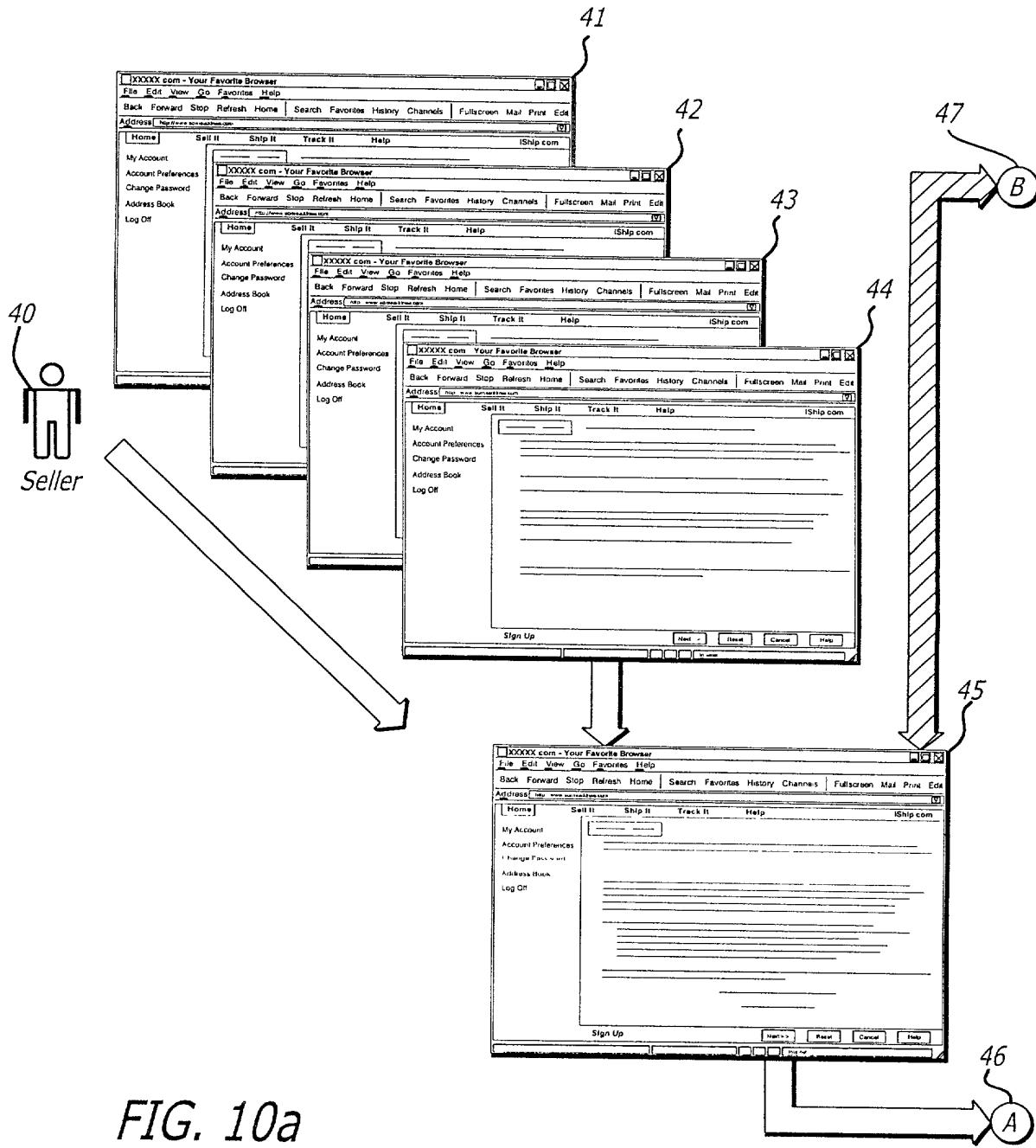


FIG. 10a

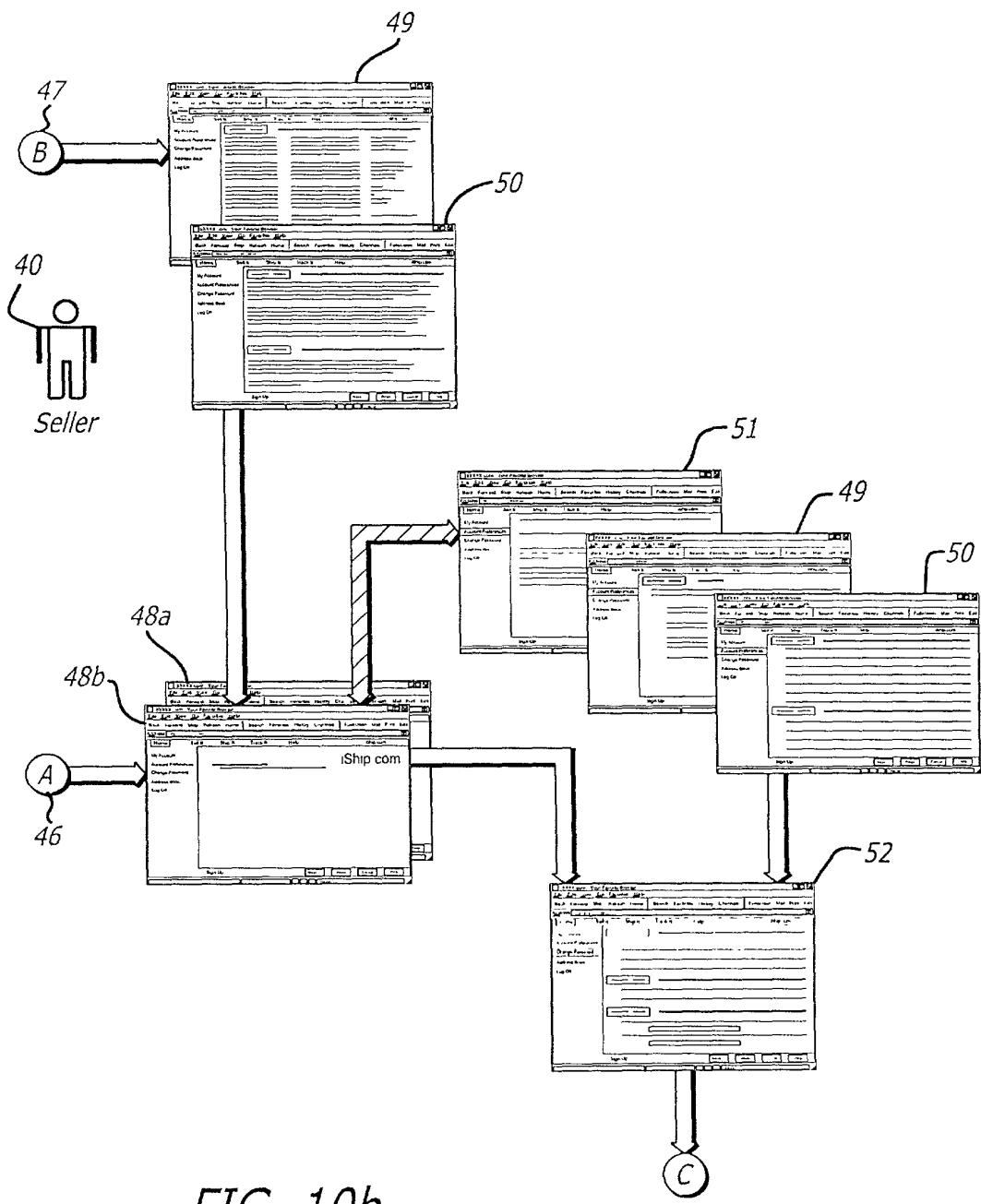


FIG. 10b

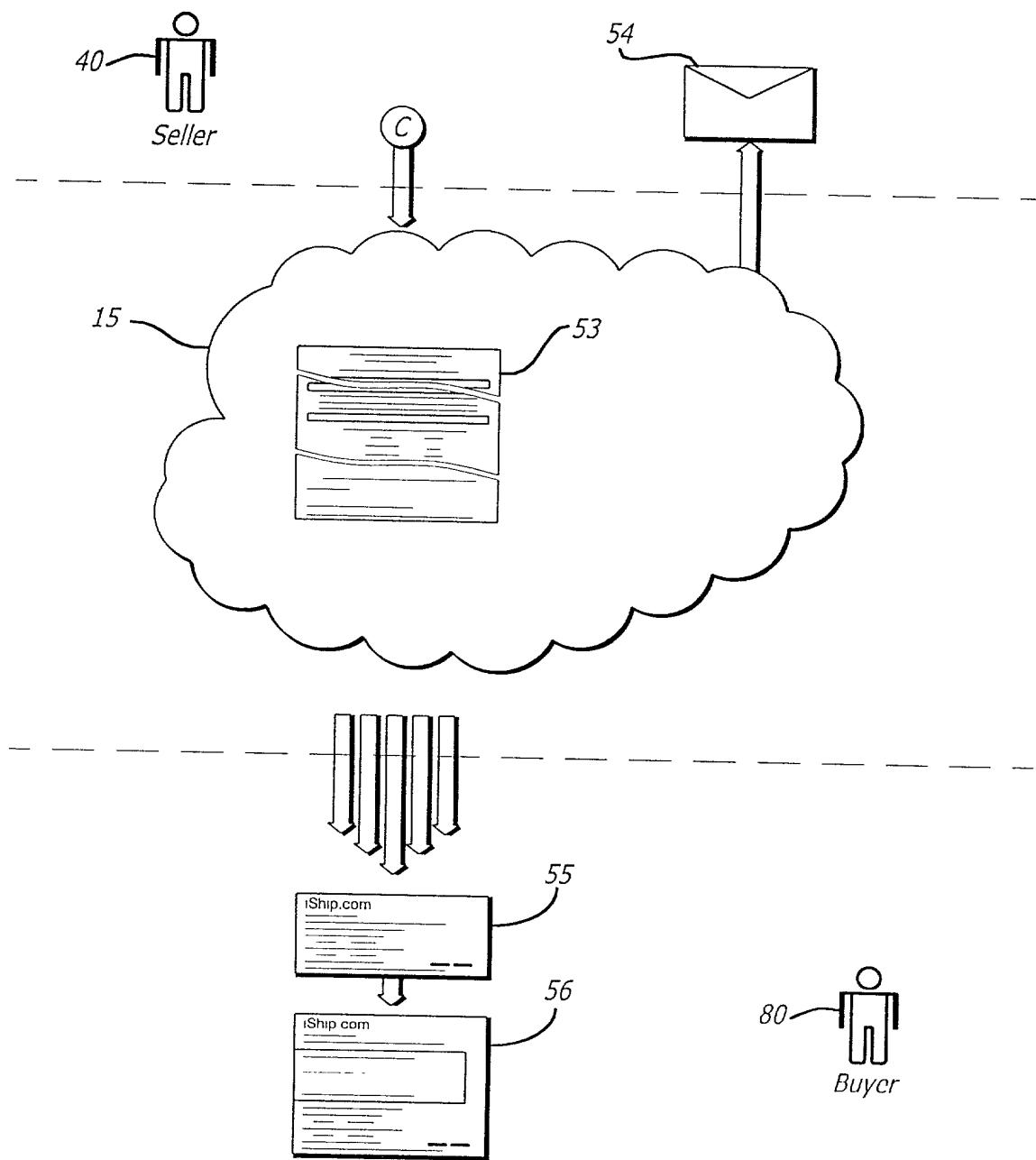


FIG. 10c

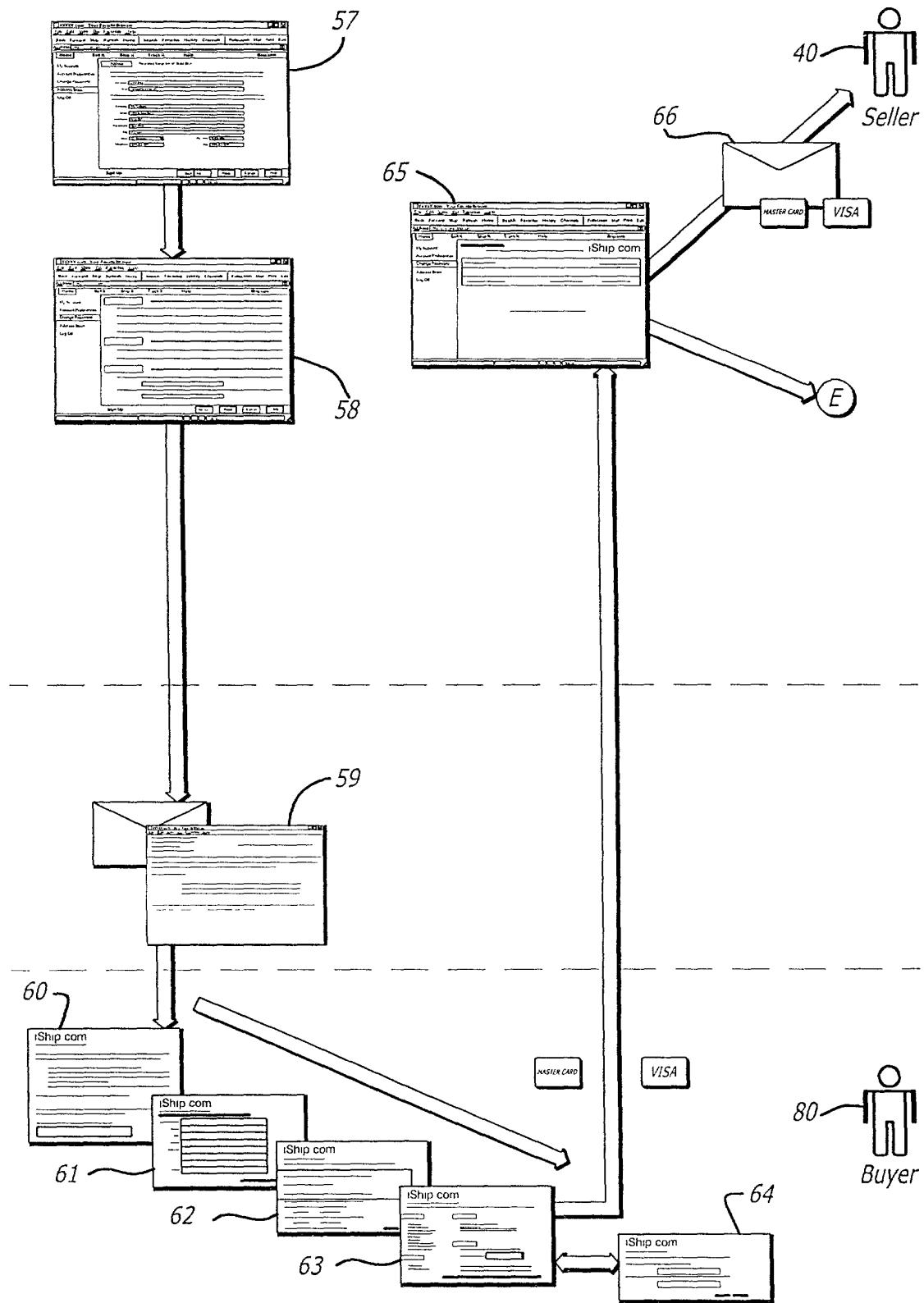
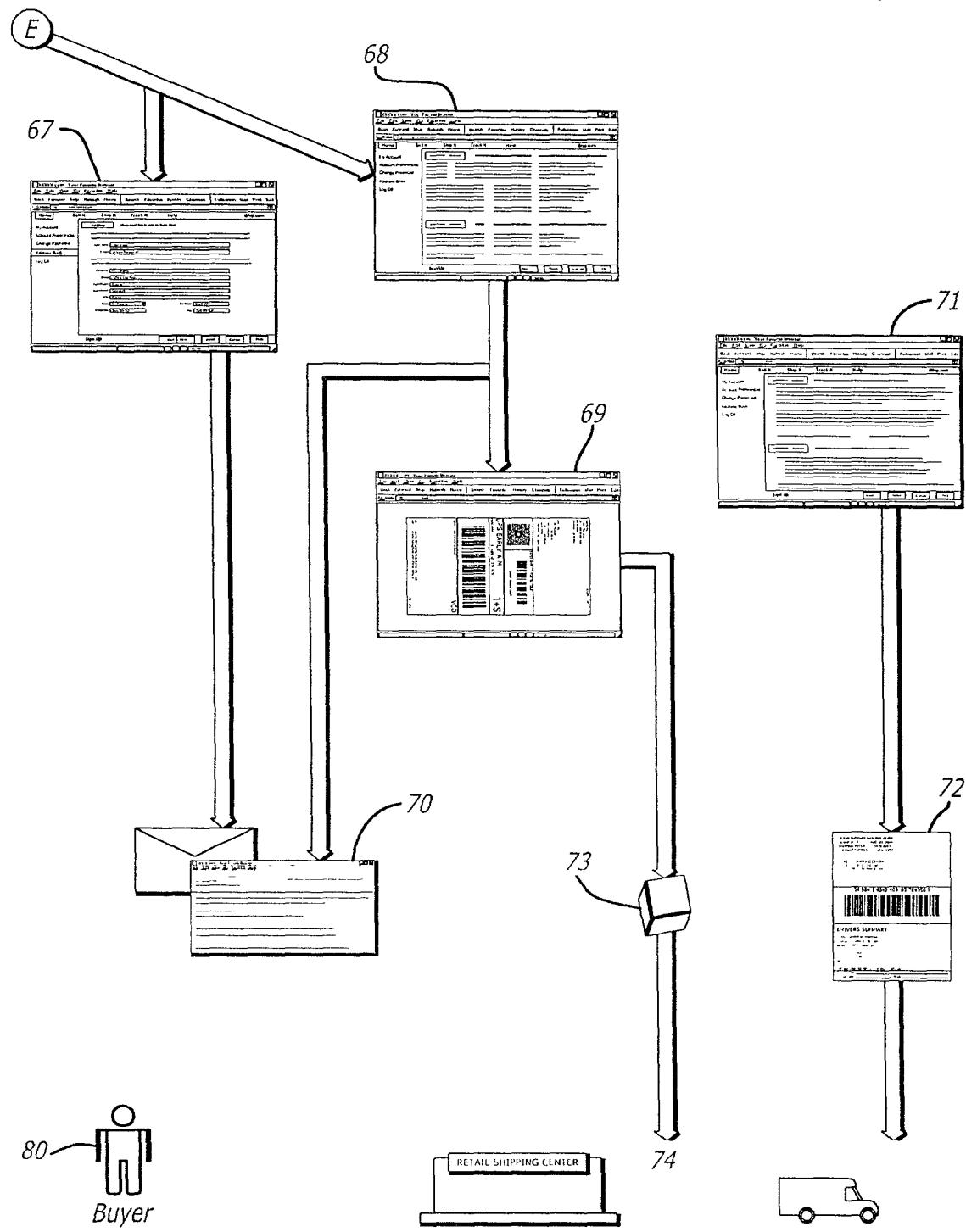


FIG. 10d

FIG. 10e



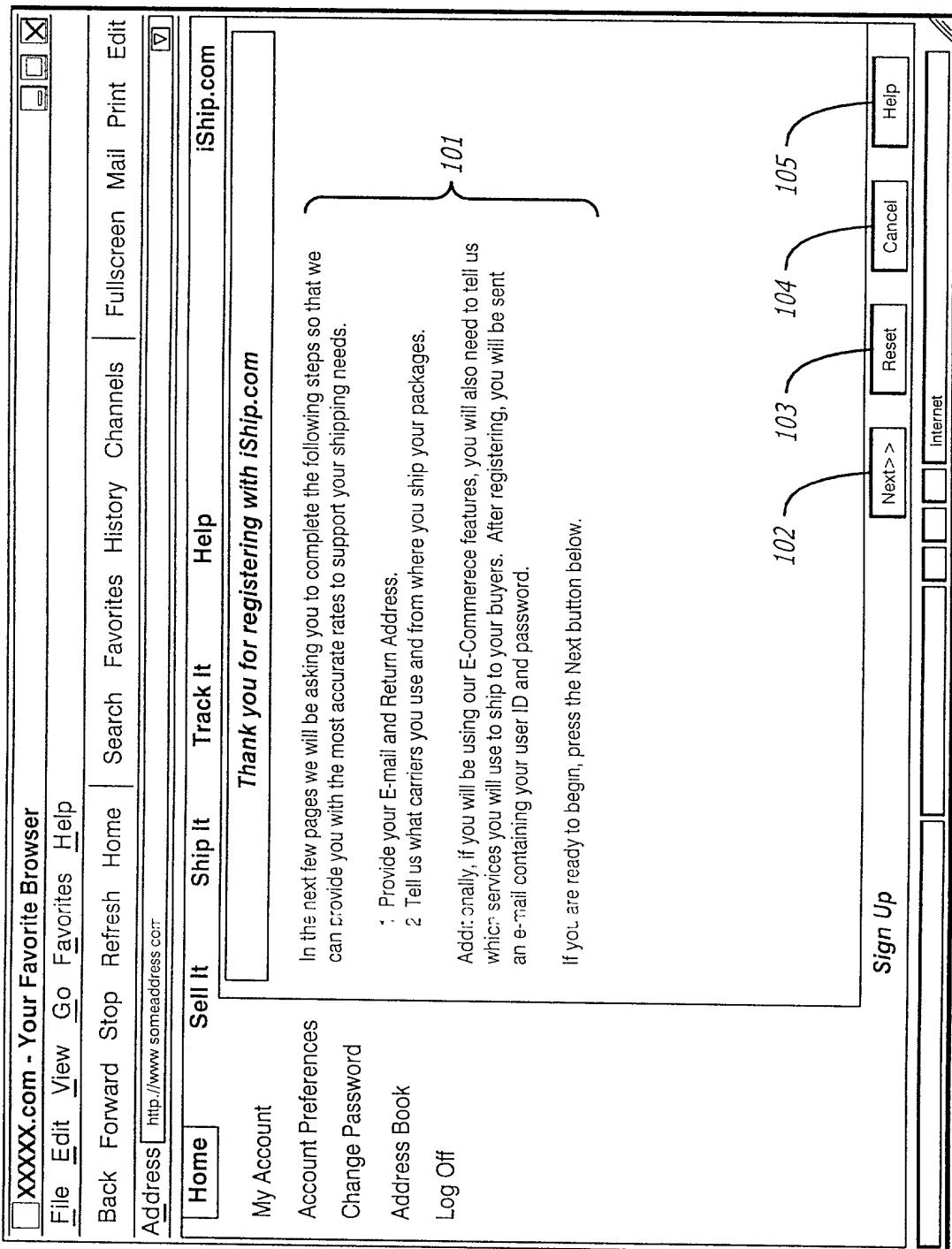


FIG. 11

XXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address

Home **Sell It** **Ship It** **Track It** **Help** **iShip.com**

Address Required fields are in Bold Blue.

Enter your full name the way you would like it to appear on your package shipping label.

iShip.com will send shipping and tracking messages to the e-mail address you provide.

Your Name: 106

E-mail: 107

Enter your return address. This should not be a P.O. Box unless you intend to only ship w/in the USPS. Packages shipped with other carriers cannot be returned to P.O. Boxes.

Company: 108

Street: 109

Floor/Room: 110

Department: 111

City: 112

State: 113b Zip Code: 115

Telephone: 113a Fax: 116

114

117

102

103

104

105

< < Back Reset

Internet

Sign Up

FIG. 12

XXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address [http://www.someaddress.com]

Home Sell It Ship It Track It Help iShip.com

Location Please pick your default shipping location. 120a

I'll ship the package from: Regular pickup at my location 120b

Note: You must have a laser printer and UPS Account to ship from this location using iShip.com.

Enter the City, State & Zip Code from which you will be shipping if different than your Return Address.

City: You Town 122

State: AL - Alabama 123a

Zip Code: 20002-1001 123b

124

102

Sign Up << Back Next > Reset Cancel Help

Internet

FIG. 13

121a 121b 126

Location Please pick your default shipping location.

I'll ship the package from:

LOCATION	PICKUP TIMES	COMMENT
Retail Shipping Center 2345 E. Elm Street Anytown, TX 23001-1001 (787) 555-9865	4:45 PM - FEDEX 3:30 PM - UPS	open 24 hours 7 days a week
128	129	130

NOTE: You must have a laser printer to ship from this location using iShip.com.

127 131

FIG. 14

1040 1041 1059

Location Required fields are in **Bold Blue**.

Where will you ship your package from?:

LOCATION	PICKUP TIMES	COMMENT	MORE LOCATIONS
Any Company 1234 Main St. N.E. Suite E110 Yourtown, WA 98000	3:30 PM - FEDEX 2:30 PM - Airborne 2:30 PM - UPS	The Internet Package Shipper	<input type="button" value="Browse"/> <input type="checkbox"/>

1058 1042

Destination Zip Code:

Package If you are not using carrier packaging select Other Packaging and enter the package dimensions.

Packaging: Carrier Letter Carrier Box Weight: lbs
 Carrier Pak Carrier Tube Check here if your package needs Additional Handling.
 Other Packaging (Indicate size) See Help if you are not sure if Additional Handling Charges apply to your package

1043 1046 1047 1051

1044 1045 1046 1052

Length: in. Width: in. Height: in.

1045 1050 1051

Compare Services

1049 1048 102 103 104 105

FIG. 15

XXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address

Home **Sell It** **Ship It** **Track It** **Help** **iShip.com**

UPS Shipping Tell us if you want to ship your UPS packages using iShip.com

If you have a laser printer or ink/bubble jet printer either A) ship your UPS packages at retail shipping center or B) have your own UPS account you can use iShip.com to process your packages and print your labels. Select below how you would like to process your UPS packages.

140 I will use iShip.com to ship my UPS packages and I have my own UPS Account.

UPS Account Number: Scheduled Pickup time: 142a 142b 142c PM

141 I will use iShip.com to ship my UPS packages but do not have a UPS Account. I will drop the packages off at my local retail shipping center. Please set my default Shipping Location to my retail shipping center.

144 I will not use iShip.com to ship my UPS packages.

If you have chosen to ship your UPS packages with iShip.com using your own UPS account, you will be notified by e-mail when UPS has activated your account for Internet based shipping. This typically takes two business days.

145

Sign Up Internet

102

FIG. 16

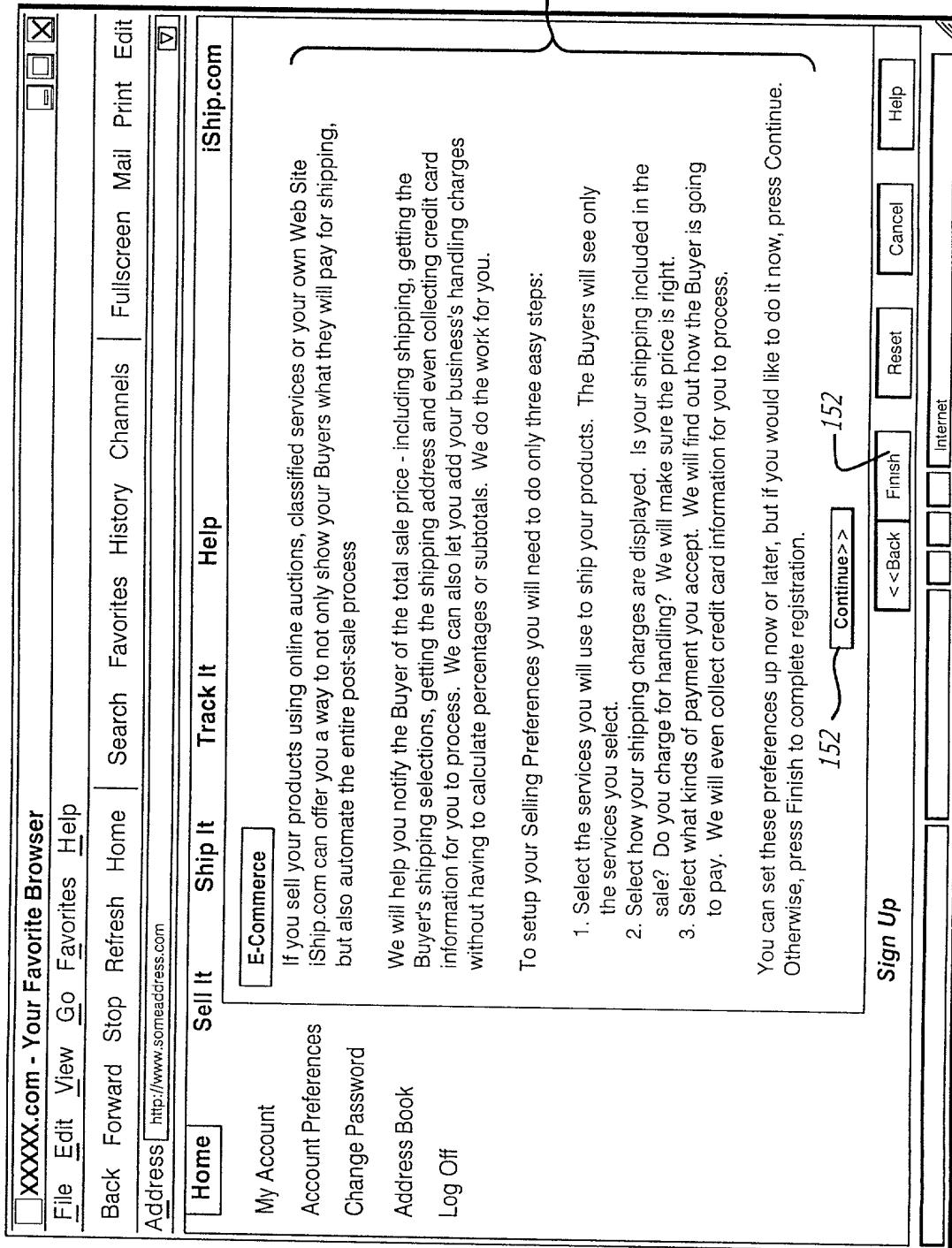


FIG. 17

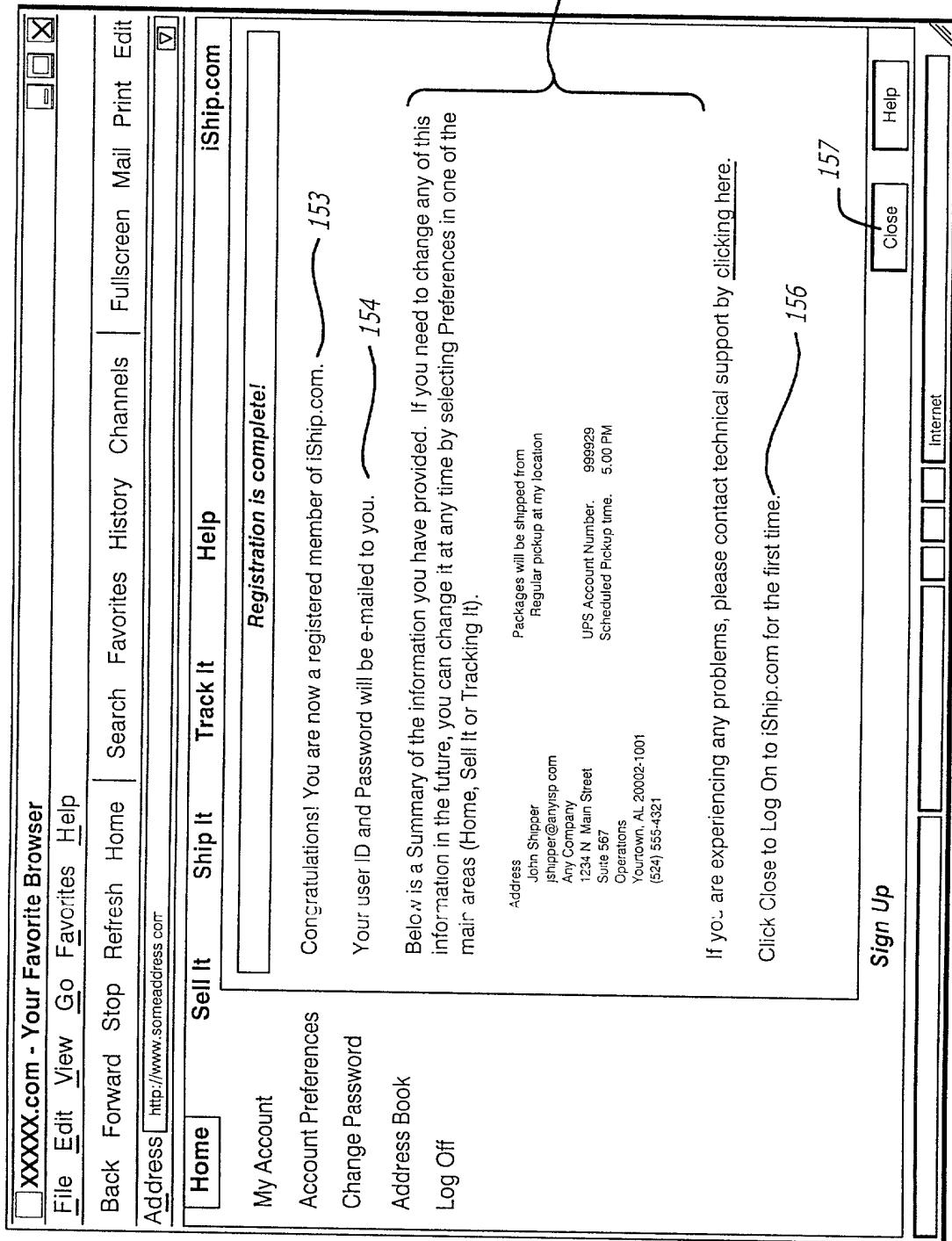
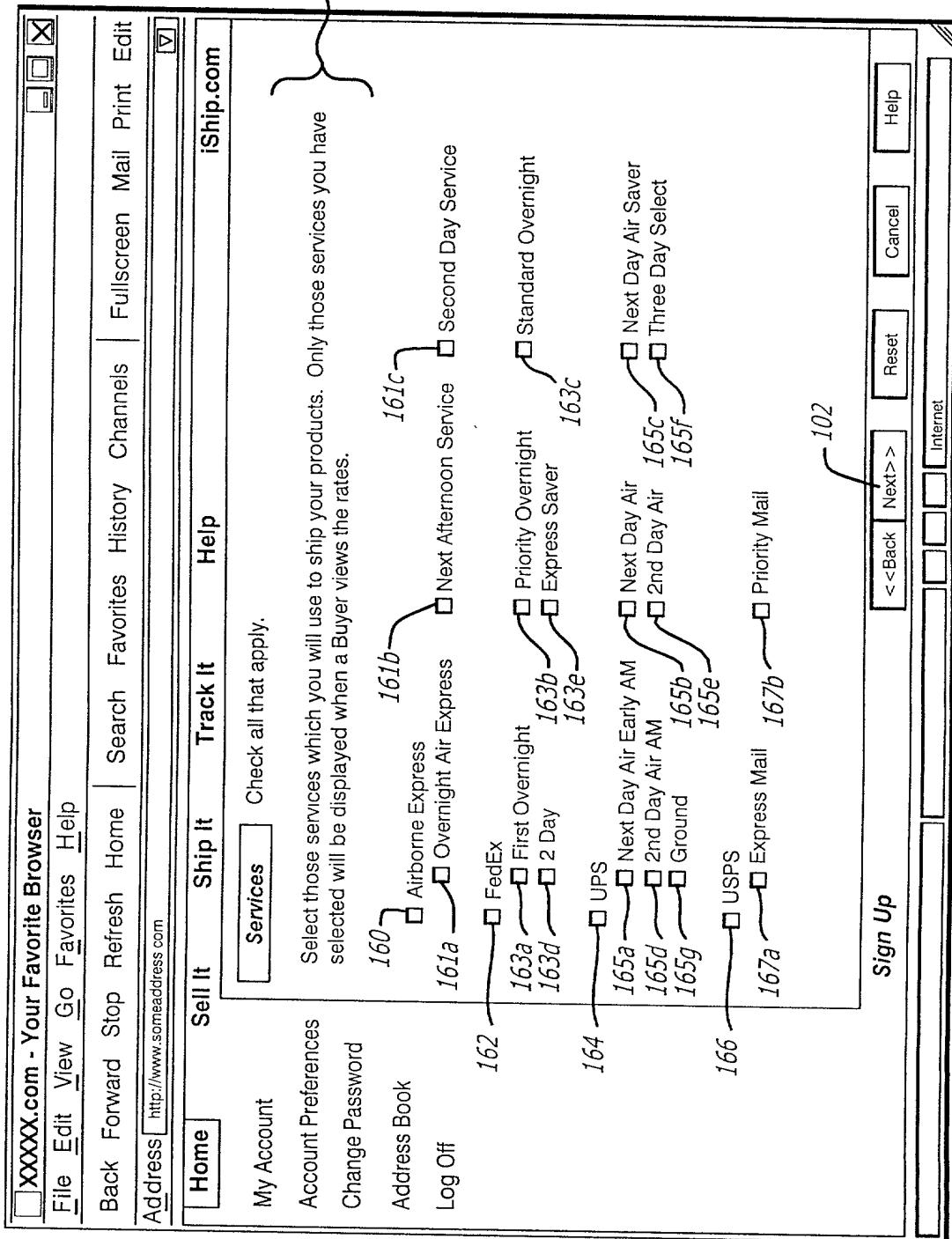


FIG. 18



XXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address [http://www.someaddress.com]

My iShip

Price It **Ship It** **Track It** **Account Info** **Help**

Services Check all that apply.

Select those services which you will use to ship your products. Only those you have selected will be displayed when a Buyer views the rates.

My Pricing	<input type="checkbox"/> Airborne Express	<input type="checkbox"/> Next Afternoon Service	<input type="checkbox"/> Second Day Service
Price a Package	<input type="checkbox"/> Overnight Air Express		
Address Book			
My Selling			
Create Links	<input type="checkbox"/> FedEx	<input type="checkbox"/> Priority Overnight	<input type="checkbox"/> Standard Overnight
Request Buyer Info	<input type="checkbox"/> 2 Day	<input type="checkbox"/> Express Saver	
Price Preferences			
Log Off			
UPS	<input type="checkbox"/> UPS	<input type="checkbox"/> Next Day Air	<input type="checkbox"/> Next Day Air Saver
	<input type="checkbox"/> Next Day Air Early AM	<input type="checkbox"/> 2nd Day Air	<input type="checkbox"/> 3 Day Select
	<input type="checkbox"/> 2nd Day Air AM	<input type="checkbox"/> Ground	
	<input type="checkbox"/> Ground		
USPS	<input type="checkbox"/> USPS	<input type="checkbox"/> Priority Mail	<input type="checkbox"/> Parcel Post
	<input type="checkbox"/> Express Mail		

Pricing Preferences

Next>> Cancel Help

Internet

FIG. 20

XXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address

Home **Sell It** **Ship It** **Track It** **Help** **iShip.com**

Charges Select how you want to display your Buyer's shipping charges. 169

170 Item cost includes shipping charges.

171 Buyer pays actual shipping charges.

172 Buyer pays shipping and additional charges. No rates are displayed, only services available. Total displayed to the Buyer. Check all that apply. 174

173 Add Percentage of Shipping Cost %

175 Add Fixed Handling Charge \$

177 Add iShip.com Service Fee 176

Payment Select what Payment Methods you will accept from the Buyer. 178

Indicate if you want credit card information to be collected and passed on for your process. Check all that apply. 179d

179d Visa American Express Personal Check 179c Cashier's check

179e MasterCard Discover Money Order 179f 179g

180 Collect credit card information so that I can process it myself. 152

Sign Up Internet

FIG. 21

XXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address

My iShip	Price It	Ship It	Track It	Account Info	Help
My Pricing Price a Package	<input type="checkbox"/> Charges Select how you want to display your Buyer's shipping charges. <input type="radio"/> Item cost includes shipping charges. No rates are displayed, only services available. <input type="radio"/> Buyer pays actual shipping charges. <input type="radio"/> Buyer pays shipping and additional charges. Select charges to be added to the shipping Total displayed to the Buyer. Check all that apply. <input type="checkbox"/> Add Percentage of Shipping Cost <input type="text"/> % <input type="checkbox"/> Add Fixed Handling Charge <input type="text"/> \$ <input type="checkbox"/> Add iShip.com Service Fee				
Address Book					
My Selling					
Create Links					
Request Buyer Info					
Price Preferences					
Log Off					

Payment Select what Payment Methods you will accept from the Buyer.

Indicate if you want credit card information to be collected and passed on for your process. Check all that apply.

Visa American Express Personal Check Cashier's check
 MasterCard Discover Money Order

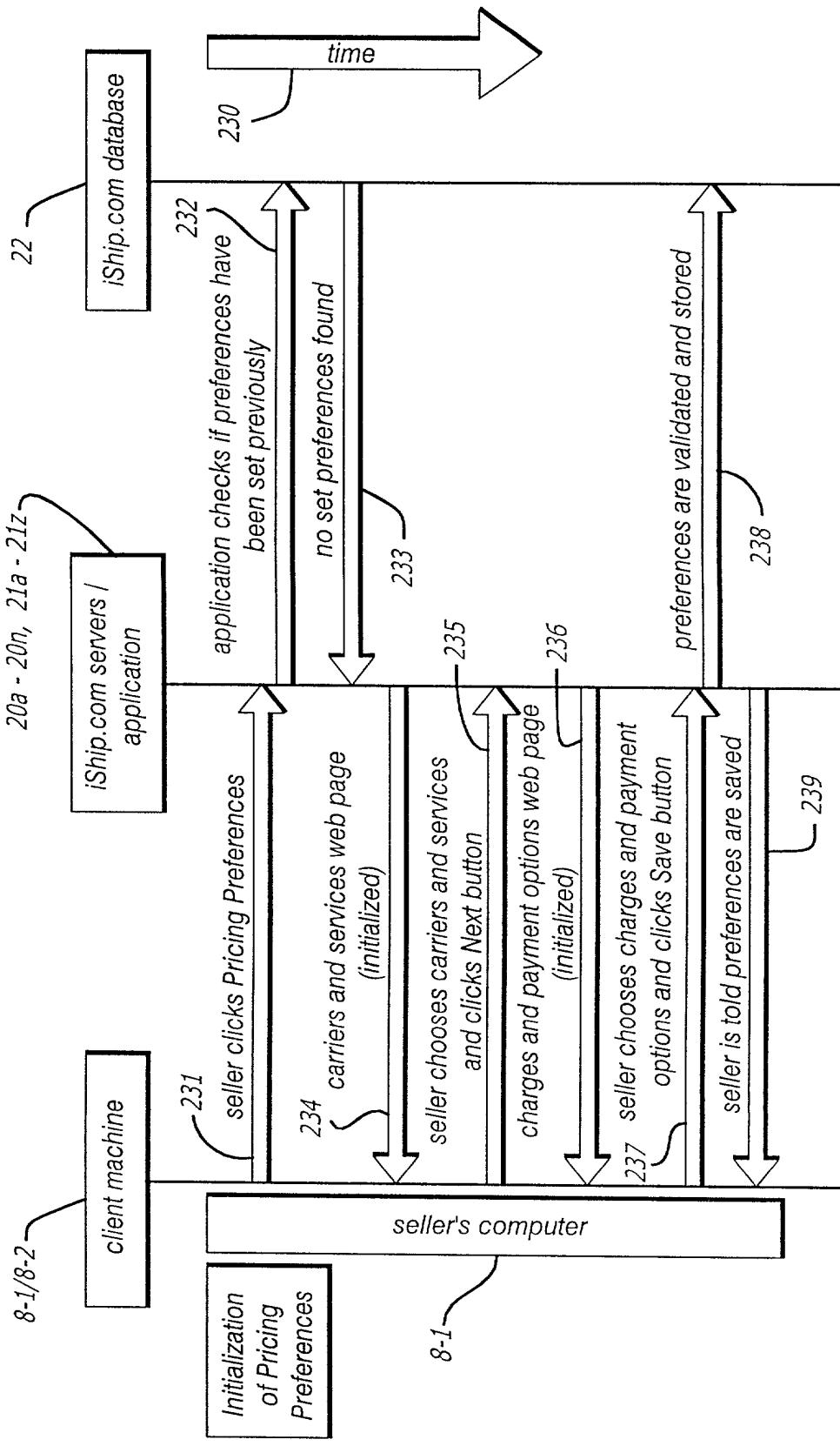
Collect credit card information so that I can process it myself.

181

Pricing Preferences

FIG. 22

FIG. 23



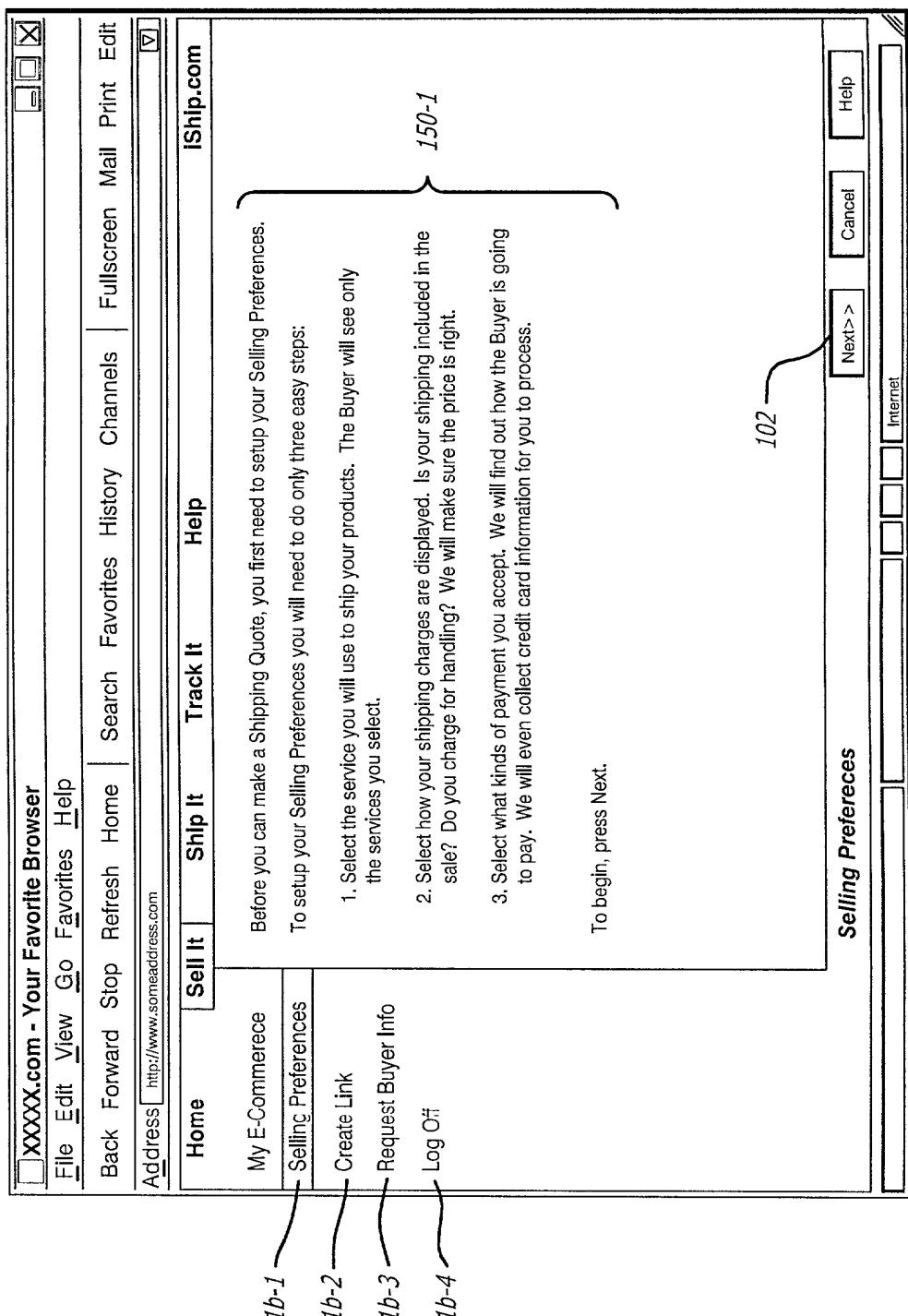


FIG. 24

XXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address:

Home Sell It Ship It Track It Help iShip.com

1. Define Item Enter the shipping weight and value of the item you are selling.

Weight: 191a 191b Irregular or Non-Standard Packaging

(Additional charges may be applied if the weight entered differs from the actual weight when shipped.)

Loss Protection: 193 Basic Coverage 194 Declared Value 195

*Up to the first \$100, except Express mail which is up to the first \$500. Priority Mail has no basic coverage.

2. Preview Item Select an example destination or enter a Zip Code to preview.

Los Angeles, CA 196a Destination Zip Code 196c 196b 197a 197b Preview

3. Create Link Press Go to generate a link. Paste the link into your HTML code.

Link Type: HTML Link Web Address Only 200 201 202 203b1 203b2 204

Link Text: 203a

Link Text: 203b1 203b2

Create Link Internet

FIG. 25

1074 {

Location Required fields are in **Bold Blue**.

Where will you ship your package from?: Will drop off at Carrier Drop Box 1041

NOTE: You must have a laser printer and credit card to ship from this location using iShip.com.

Enter the Origin and Destination Zip Codes for your package.

Origin Zip Code: 99999-9999 1053

Destination Zip Code: 99999-9999 1042

Package If you are not using carrier packaging select Other Packaging and enter the package dimensions.

Packaging: Carrier Letter 1046
 Carrier Pak 1047
 Carrier Box 1048
 Carrier Tube 1049

Other Packaging (indicate size) 1050

Length: in. 1049

Width: in. 1048

Height: in. 1050

Weight: lbs 1051

Price will vary if the estimated weight differs from the actual weight shipped

Check here if your package needs Additional Handling. 1052

See Help if you are not sure if Additional Handling Charges apply to your package

Compare Services

Next>> 102 Reset 103 Cancel 104 Help 105

FIG. 26

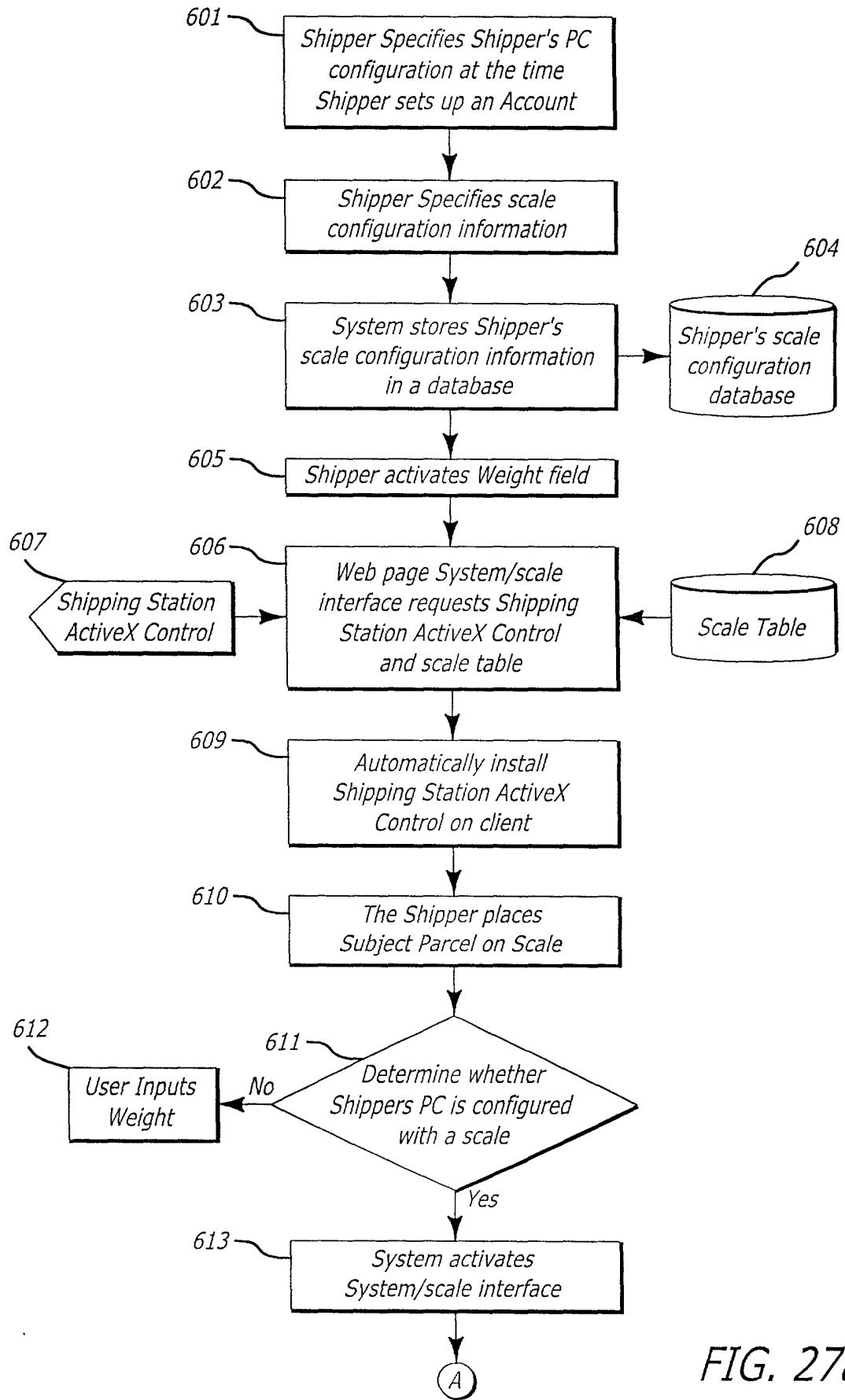


FIG. 27a

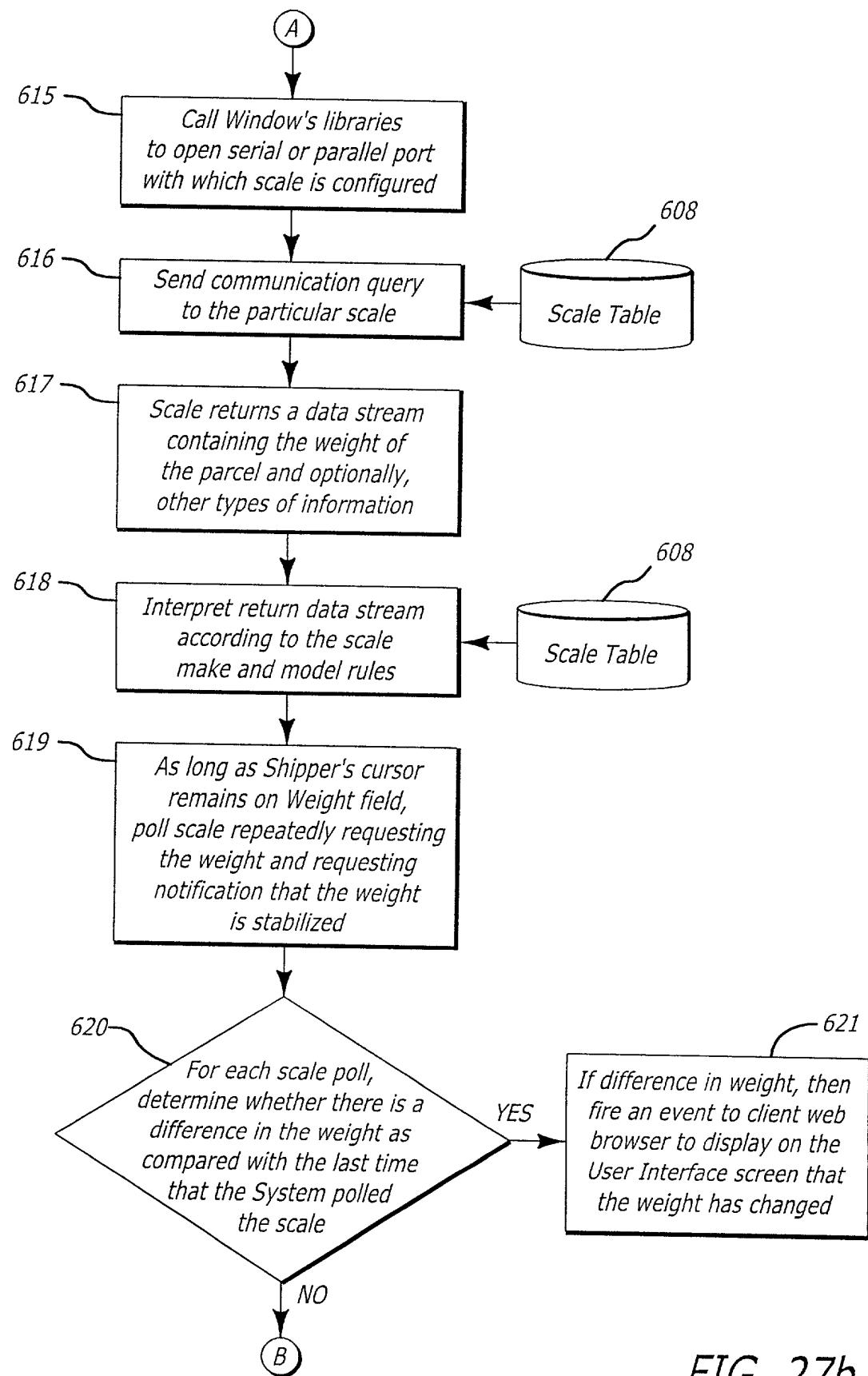


FIG. 27b

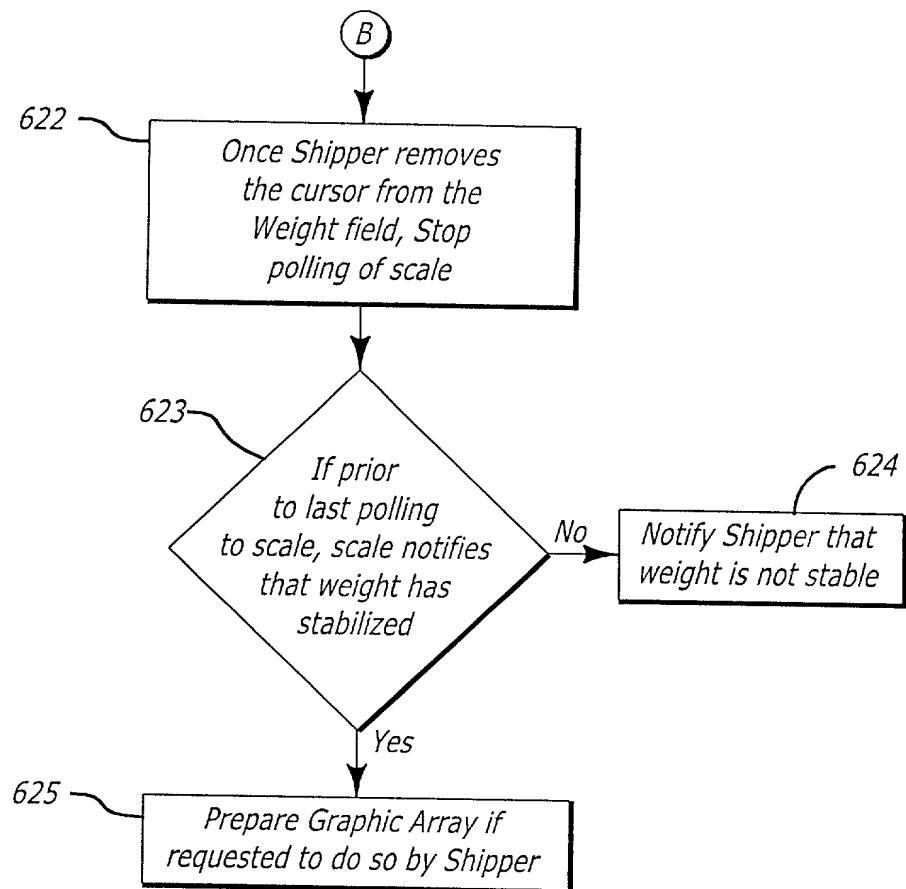


FIG. 27c

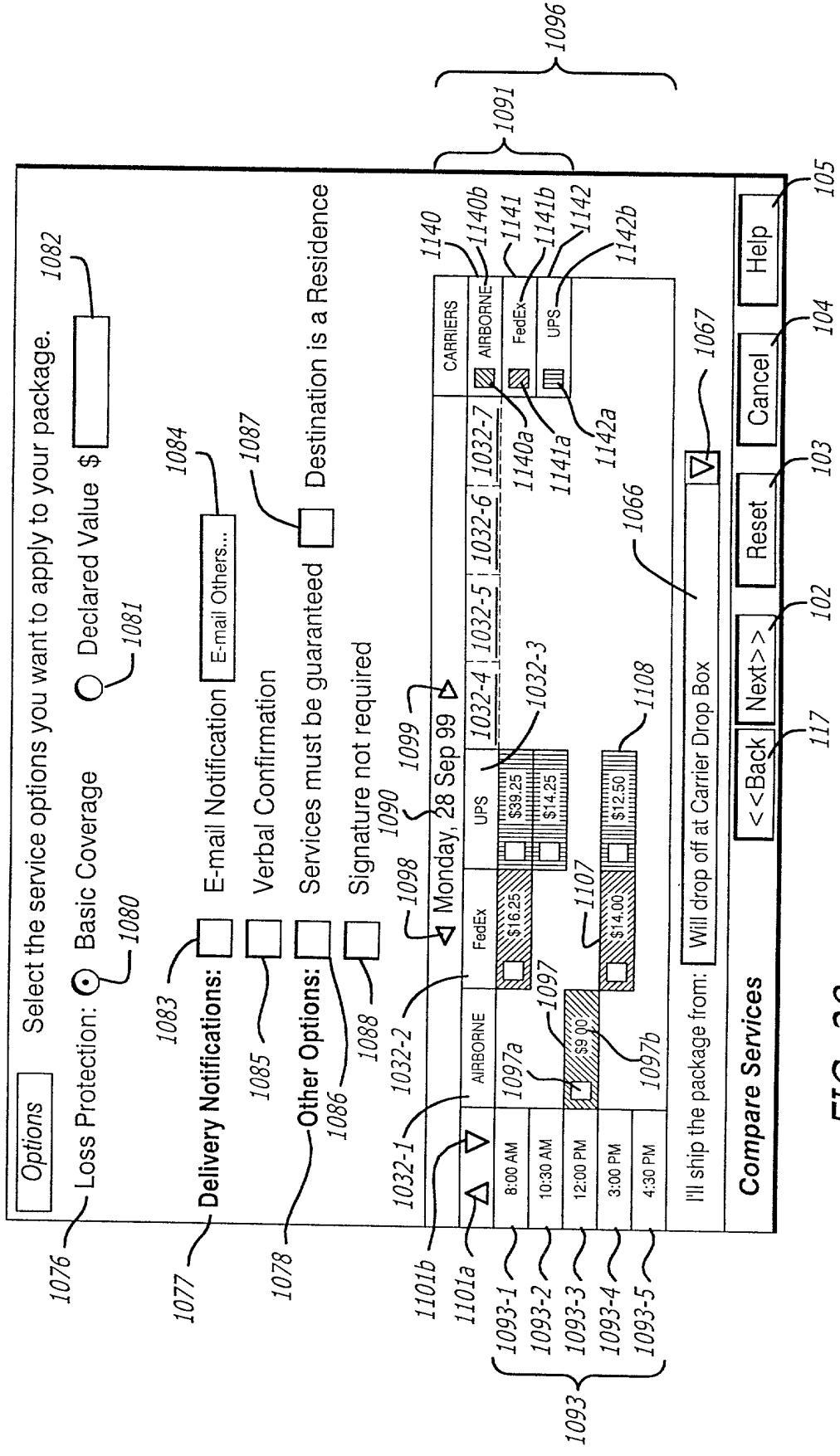


FIG. 28

XXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home | Search Favorites History Channels | Fullscreen Mail Print Edit

Address

My iShip [Price It](#) [Ship It](#) [Track It](#) [Account Info](#) [Help](#)

1. Define Item Enter the shipping weight and value of the item.

Weight*: Additional charges may be applied if the weight entered differs from the actual weight when shipped

Irregular or Non-Standard Packaging

Loss Protection: Basic Coverage** Declared Value \$

... (up to the first \$100, except Express mail which is up to the first \$500. Priority Mail has no basic coverage.)

2. Preview Item Select an example destination or enter a Zip Code to preview.

(Select One) Destination Zip Code

3. Create Link Press Go to generate a link. Paste the link into your HTML code.

Link Type: HTML Link Web Address Only

Link Text:

Link Text:

Create Link

FIG. 29

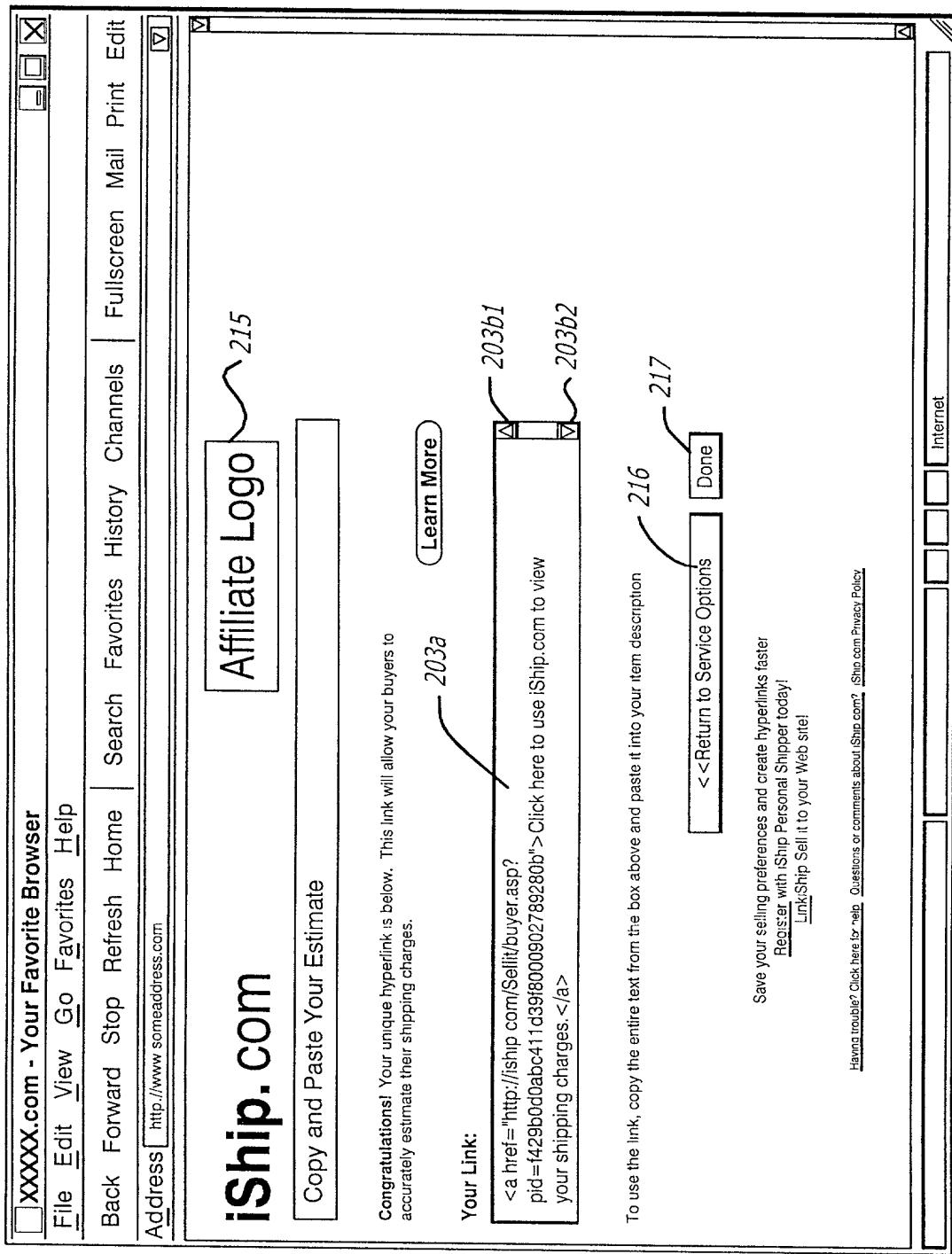


FIG. 30

<a target=_new
href="http://iship.com/commerce/default.asp?K=A6V1XZ
&W=10&V=0&H=0">View Your Shipping Costs!

Diagram illustrating the structure of the HTML code in Figure 31. The code is annotated with numbered callouts:

- 210: Points to the URL `http://iship.com/commerce/default.asp?K=A6V1XZ`.
- 210-1: Points to the parameter `K=A6V1XZ`.
- 210-2: Points to the parameter `&W=10&V=0&H=0`.
- 211: Points to the opening tag `<a`.
- 212: Points to the attribute `target=_new`.
- 213: Points to the attribute `href`.
- 214: Points to the closing tag ``.

FIG. 31

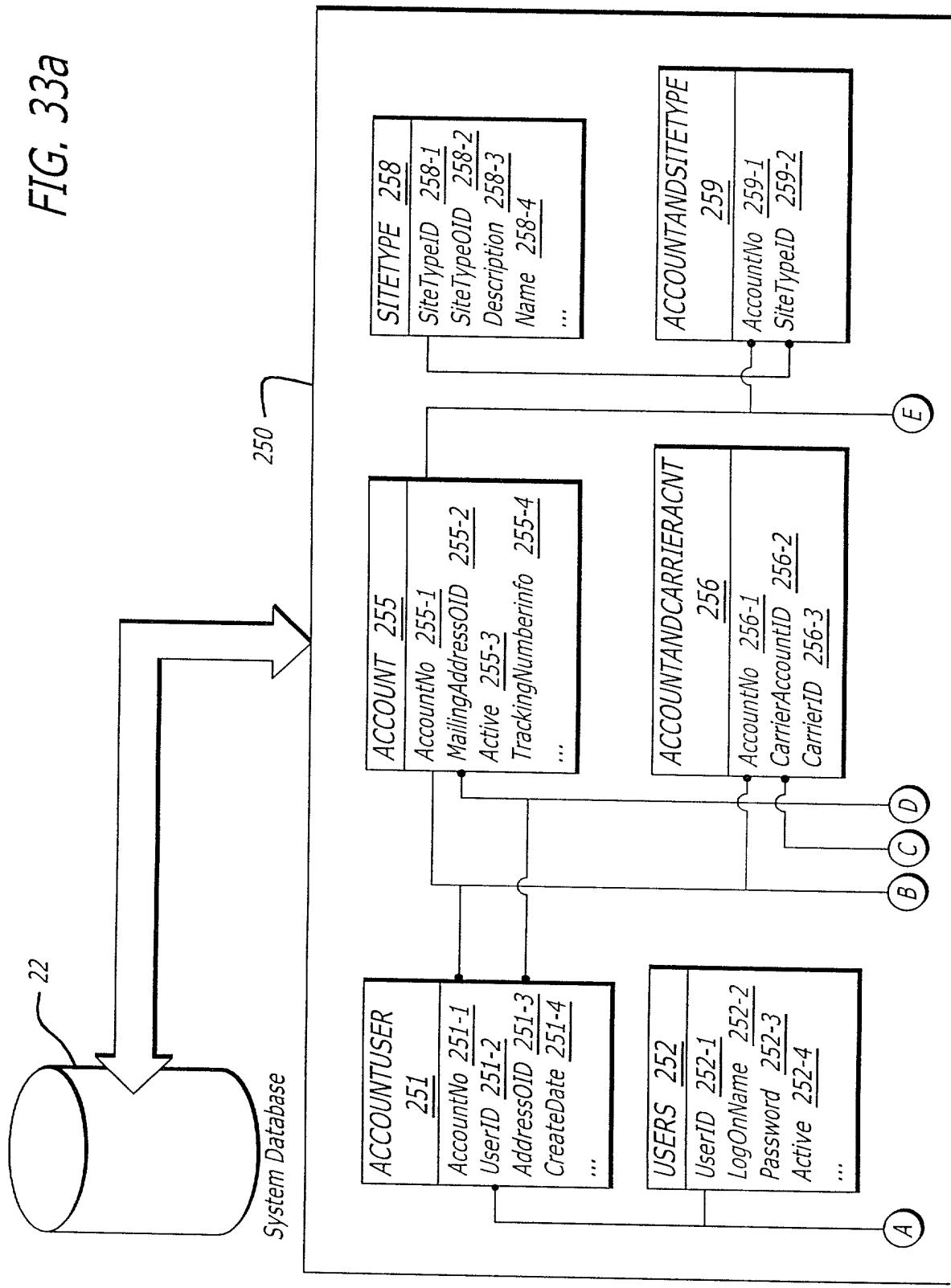
<a href="http://iship.com/Sellit/buyer.asp?
pid=f429b0d0abc411d39f8000902789280b">
>Click here to use iShip.com to view your shipping charges.

Diagram illustrating the structure of the HTML code in Figure 32. The code is annotated with numbered callouts:

- 220: Points to the URL `http://iship.com/Sellit/buyer.asp?pid=f429b0d0abc411d39f8000902789280b`.
- 214: Points to the closing tag ``.

FIG. 32

FIG. 33a



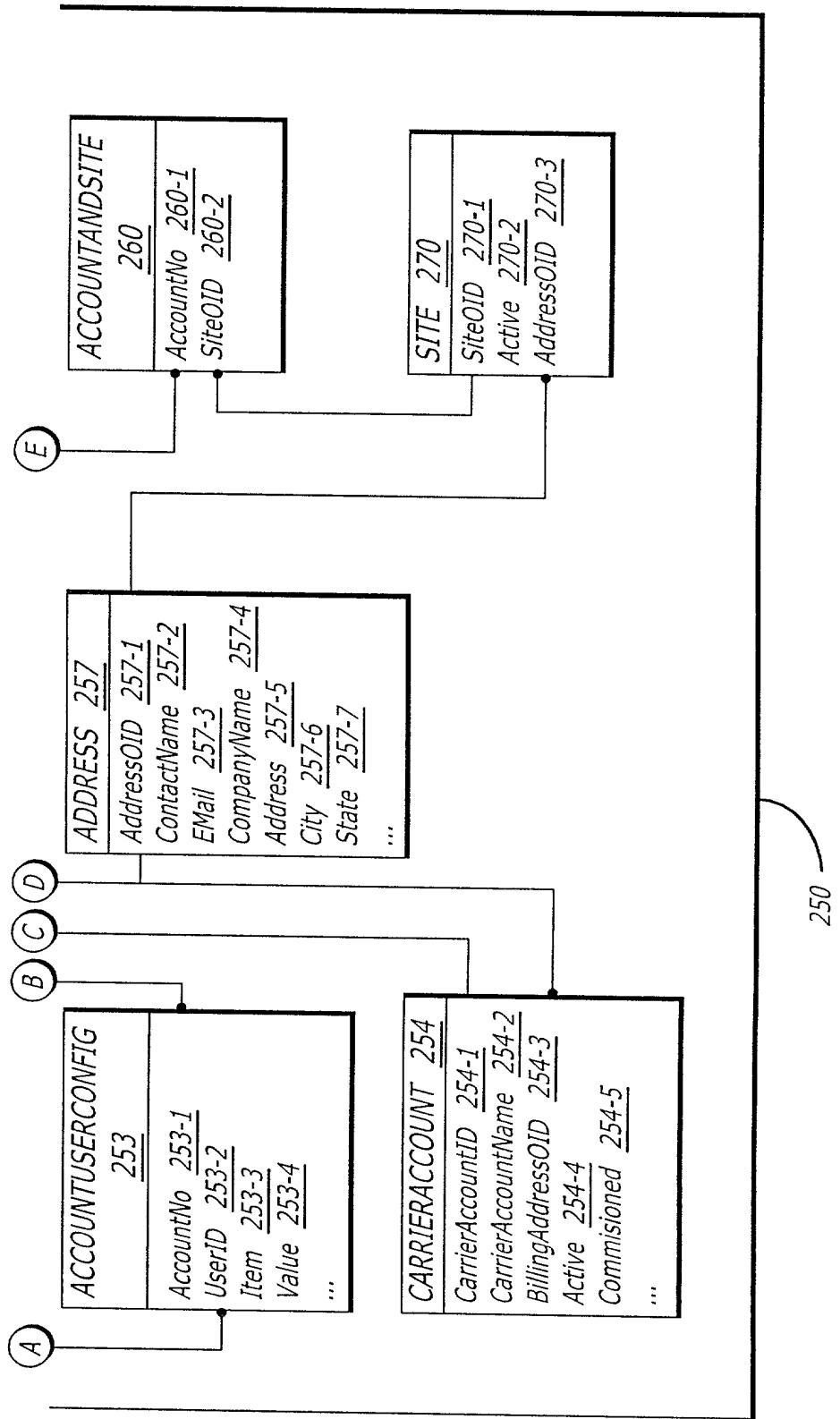


FIG. 33b

250

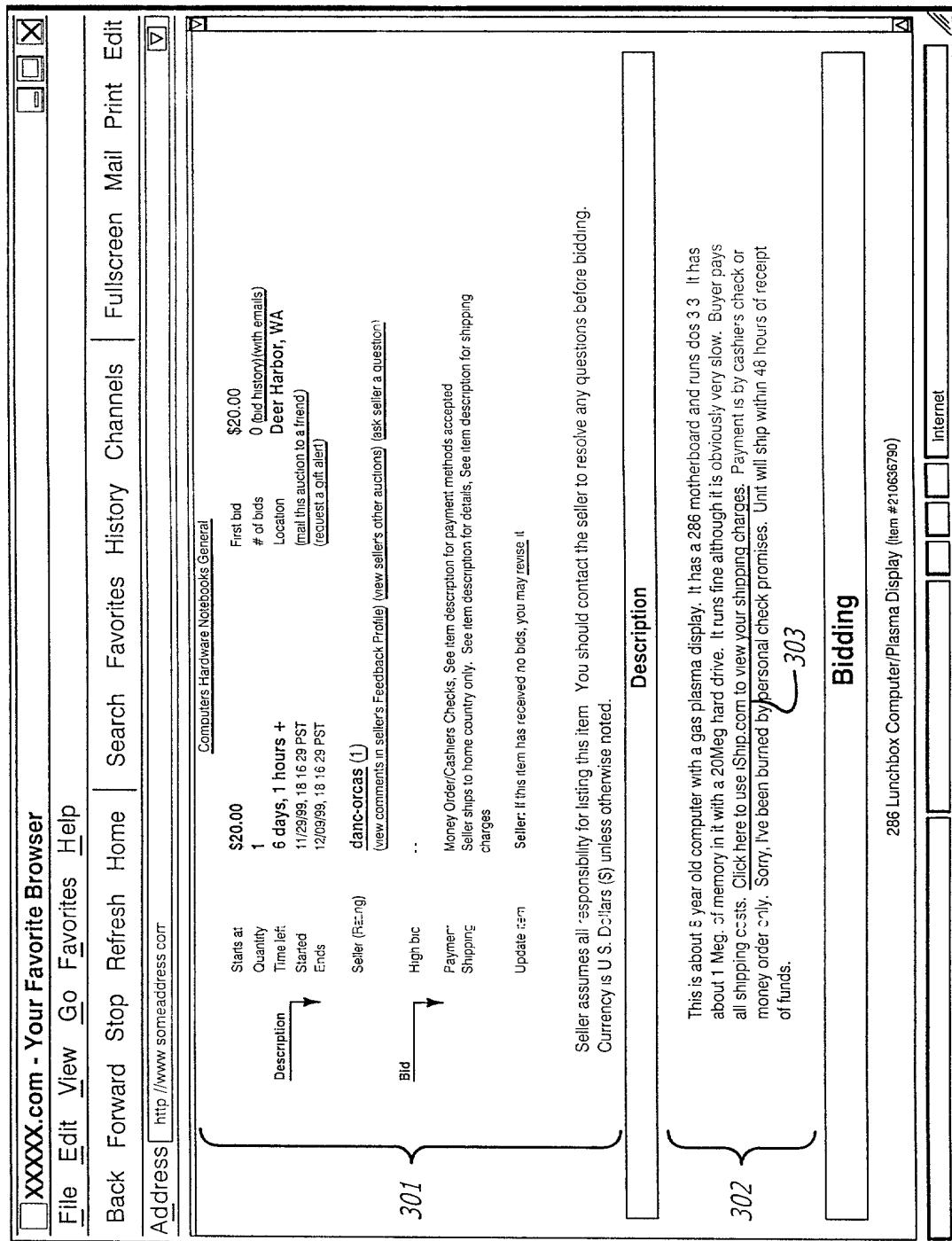


FIG. 34

iShip.com

The Internet Package Shipper

Enter your Zip Code and other options, then click Get Rates

- The Zip Code where the item would be delivered is: 310

- The delivery address for the item would be:
 Business 312 Residence 313

- I want the service to have a guaranteed delivery time:
 No 315

- Yes 314

Click the "Back" on your browser to return to item page. 316

317

Shipping services and rates provided by iShip.com, The Internet Package Shipper

FIG. 35

Rates & Times		Click on the price to select a delivery date, time and carrier.		1060	
1063		Date you expect to ship your package:		9/27/99 - Today <input checked="" type="checkbox"/>	
1109a		1109b		1061	
1109c		1109d		1062	
1063-1		1063-2		1063-3	
1064-1		1063-4		1063-5	
1064-2		1063-6		1063-7	
1064-3		1063-8		CARRIERS	
1065a		1063-9		1140b	
1071-3-1		1063-10		1140	
1064		1063-11		1141b	
1064-4		1063-12		1141	
1064-5		1063-13		1142b	
1064-6		1063-14		1142	
1064-7		1063-15		1143b	
1064-8		1063-16		1143	
1064-9		1063-17		1143a	
1064-10		1063-18		1071-4-7	
1064-11		1063-19		1071-5-7	
1064-12		1063-20		1071-6-5	
1064-13		1063-21		1071-6-6	
1064-14		1063-22		1071-6-7	
1064-15		1063-23		1066	
1064-16		1063-24		1067	
1064-17		1063-25		1068	
1064-18		1063-26		105	
1064-19		1063-27		104	
1064-20		1063-28		103	
1064-21		1063-29		102	
1064-22		1063-30		117	
1064-23		1063-31		106	
1064-24		1063-32		1061	
1064-25		1063-33		1062	
1064-26		1063-34		1063	
1064-27		1063-35		1064	
1064-28		1063-36		1065	
1064-29		1063-37		1066	
1064-30		1063-38		1067	
1064-31		1063-39		1068	
1064-32		1063-40		105	
1064-33		1063-41		104	
1064-34		1063-42		103	
1064-35		1063-43		102	
1064-36		1063-44		117	
1064-37		1063-45		106	
1064-38		1063-46		1061	
1064-39		1063-47		1062	
1064-40		1063-48		1063	
1064-41		1063-49		1064	
1064-42		1063-50		1065	
1064-43		1063-51		1066	
1064-44		1063-52		1067	
1064-45		1063-53		1068	
1064-46		1063-54		105	
1064-47		1063-55		104	
1064-48		1063-56		103	
1064-49		1063-57		102	
1064-50		1063-58		117	
1064-51		1063-59		106	
1064-52		1063-60		1061	
1064-53		1063-61		1062	
1064-54		1063-62		1063	
1064-55		1063-63		1064	
1064-56		1063-64		1065	
1064-57		1063-65		1066	
1064-58		1063-66		1067	
1064-59		1063-67		1068	
1064-60		1063-68		105	
1064-61		1063-69		104	
1064-62		1063-70		103	
1064-63		1063-71		102	
1064-64		1063-72		117	
1064-65		1063-73		106	
1064-66		1063-74		1061	
1064-67		1063-75		1062	
1064-68		1063-76		1063	
1064-69		1063-77		1064	
1064-70		1063-78		1065	
1064-71		1063-79		1066	
1064-72		1063-80		1067	
1064-73		1063-81		1068	
1064-74		1063-82		105	
1064-75		1063-83		104	
1064-76		1063-84		103	
1064-77		1063-85		102	
1064-78		1063-86		117	
1064-79		1063-87		106	
1064-80		1063-88		1061	
1064-81		1063-89		1062	
1064-82		1063-90		1063	
1064-83		1063-91		1064	
1064-84		1063-92		1065	
1064-85		1063-93		1066	
1064-86		1063-94		1067	
1064-87		1063-95		1068	
1064-88		1063-96		105	
1064-89		1063-97		104	
1064-90		1063-98		103	
1064-91		1063-99		102	
1064-92		1063-100		117	
1064-93		1063-101		106	
1064-94		1063-102		1061	
1064-95		1063-103		1062	
1064-96		1063-104		1063	
1064-97		1063-105		1064	
1064-98		1063-106		1065	
1064-99		1063-107		1066	
1064-100		1063-108		1067	
1064-101		1063-109		1068	
1064-102		1063-110		105	
1064-103		1063-111		104	
1064-104		1063-112		103	
1064-105		1063-113		102	
1064-106		1063-114		117	
1064-107		1063-115		106	
1064-108		1063-116		1061	
1064-109		1063-117		1062	
1064-110		1063-118		1063	
1064-111		1063-119		1064	
1064-112		1063-120		1065	
1064-113		1063-121		1066	
1064-114		1063-122		1067	
1064-115		1063-123		1068	
1064-116		1063-124		105	
1064-117		1063-125		104	
1064-118		1063-126		103	
1064-119		1063-127		102	
1064-120		1063-128		117	
1064-121		1063-129		106	
1064-122		1063-130		1061	
1064-123		1063-131		1062	
1064-124		1063-132		1063	
1064-125		1063-133		1064	
1064-126		1063-134		1065	
1064-127		1063-135		1066	
1064-128		1063-136		1067	
1064-129		1063-137		1068	
1064-130		1063-138		105	
1064-131		1063-139		104	
1064-132		1063-140		103	
1064-133		1063-141		102	
1064-134		1063-142		117	
1064-135		1063-143		106	
1064-136		1063-144		1061	
1064-137		1063-145		1062	
1064-138		1063-146		1063	
1064-139		1063-147		1064	
1064-140		1063-148		1065	
1064-141		1063-149		1066	
1064-142		1063-150		1067	
1064-143		1063-151		1068	
1064-144		1063-152		105	
1064-145		1063-153		104	
1064-146		1063-154		103	
1064-147		1063-155		102	
1064-148		1063-156		117	
1064-149		1063-157		106	
1064-150		1063-158		1061	
1064-151		1063-159		1062	
1064-152		1063-160		1063	
1064-153		1063-161		1064	
1064-154		1063-162		1065	
1064-155		1063-163		1066	
1064-156		1063-164		1067	
1064-157		1063-165		1068	
1064-158		1063-166		105	
1064-159		1063-167		104	
1064-160		1063-168		103	
1064-161		1063-169		102	
1064-162		1063-170		117	
1064-163		1063-171		106	
1064-164		1063-172		1061	
1064-165		1063-173		1062	
1064-166		1063-174		1063	
1064-167		1063-175		1064	
1064-168		1063-176		1065	
1064-169		1063-177		1066	
1064-170		1063-178		1067	
1064-171		1063-179		1068	
1064-172		1063-180		105	
1064-173		1063-181		104	
1064-174		1063-182		103	
1064-175		1063-183		102	
1064-176		1063-184		117	
1064-177		1063-185		106	
1064-178		1063-186		1061	
1064-179		1063-187		1062	
1064-180		1063-188		1063	
1064-181		1063-189		1064	
1064-182		1063-190		1065	
1064-183		1063-191		1066	
1064-184		1063-192		1067	
1064-185		1063-193		1068	
1064-186		1063-194		105	
1064-187		1063-195		104	
1064-188		1063-196		103	
1064-189		1063-197		102	
1064-190		1063-198		117	
1064-191		1063-199		106	
1064-192		1063-200		1061	
1064-193		1063-201		1062	
1064-194		1063-202		1063	
1064-195		1063-203		1064	
1064-196		1063-204		1065	
1064-197		1063-205		1066	
1064-198		1063-206		1067	
1064-199		1063-207		1068	
1064-200		1063-208		105	
1064-201		1063-209		104	
1064-202		1063-210		103	
1064-203		1063-211		102	
1064-204		1063-212		117	
1064-205		1063-213		106	
1064-206		1063-214		1061	
1064-207		1063-215		1062	
1064-208		1063-216		1063	
1064-209		1063-217		1064	
1064-210		1063-218		1065	
1064-211		1063-219		1066	
1064-212		1063-220		1067	
1064-213		1063-221		1068	
1064-214		1063-222		105	
1064-215		1063-223		104	
1064-216		1063-224		103	
1064-217		1063-225		102	
1064-218		1063-226		117	
1064-219		1063-227		106	
1064-220		1063-228		1061	
1064-221		1063-229		1062	
1064-222		1063-230		1063	
1064-223		1063-231		1064	
1064-224		1063-232		1065	
1064-225		1063-233		1066	
1064-226		1063-234		1067	
1064-227		1063-235		1068	
1064-228		1063-236		105	
1064-229		1063-237		104	
1064-230					

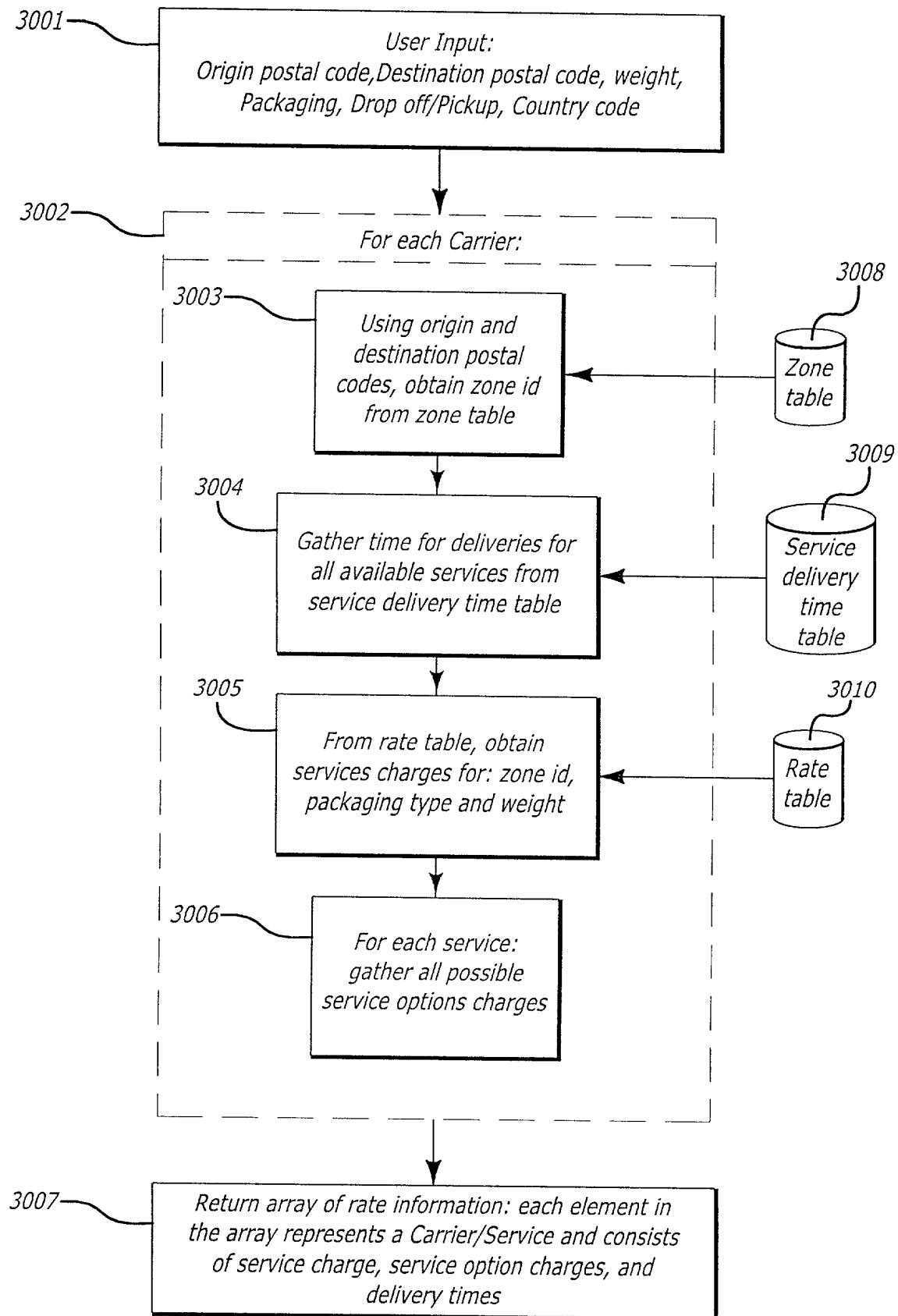


FIG. 36b

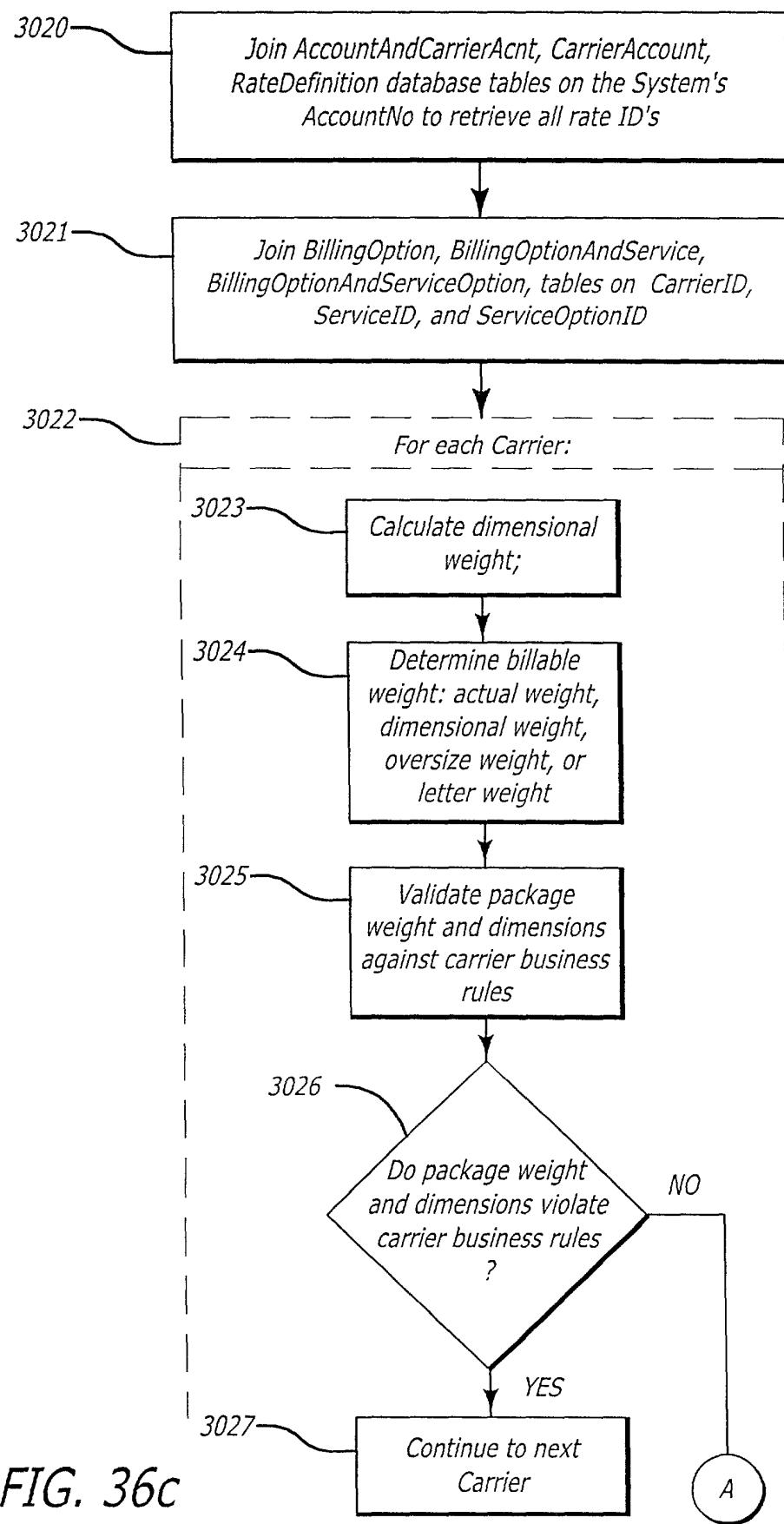


FIG. 36c

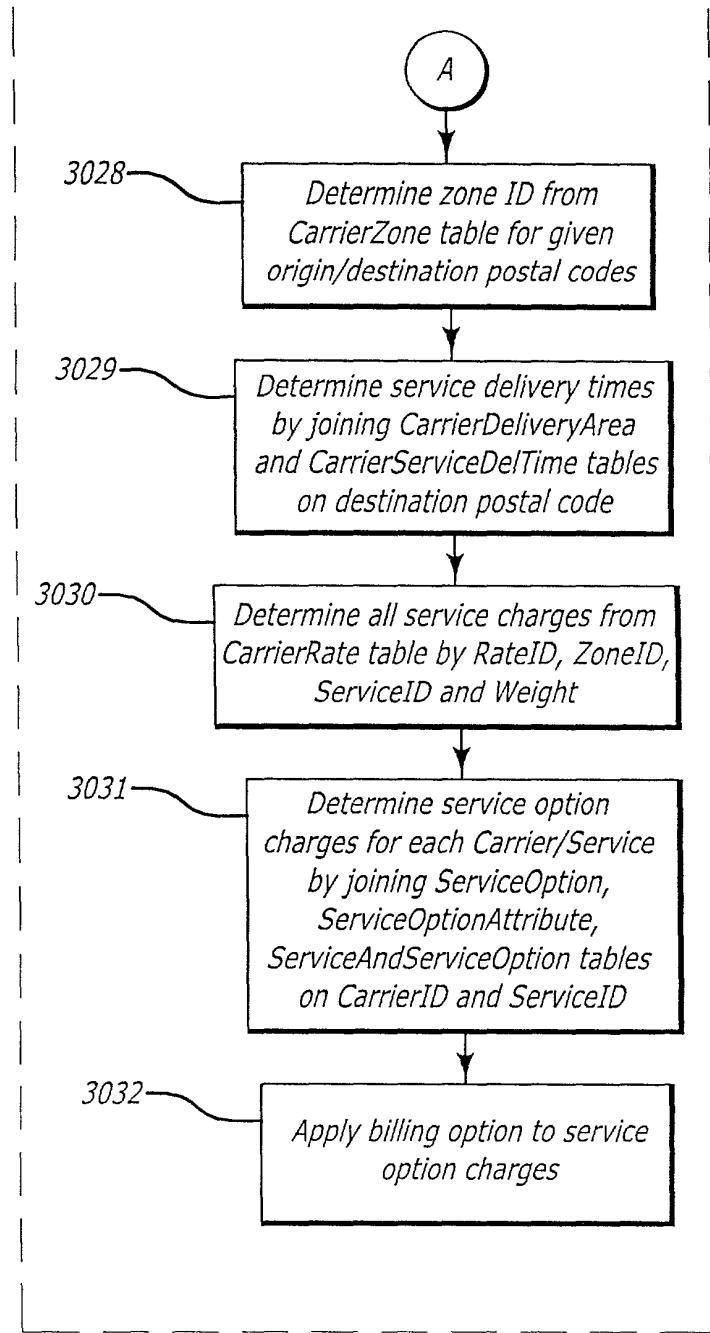


FIG. 36d

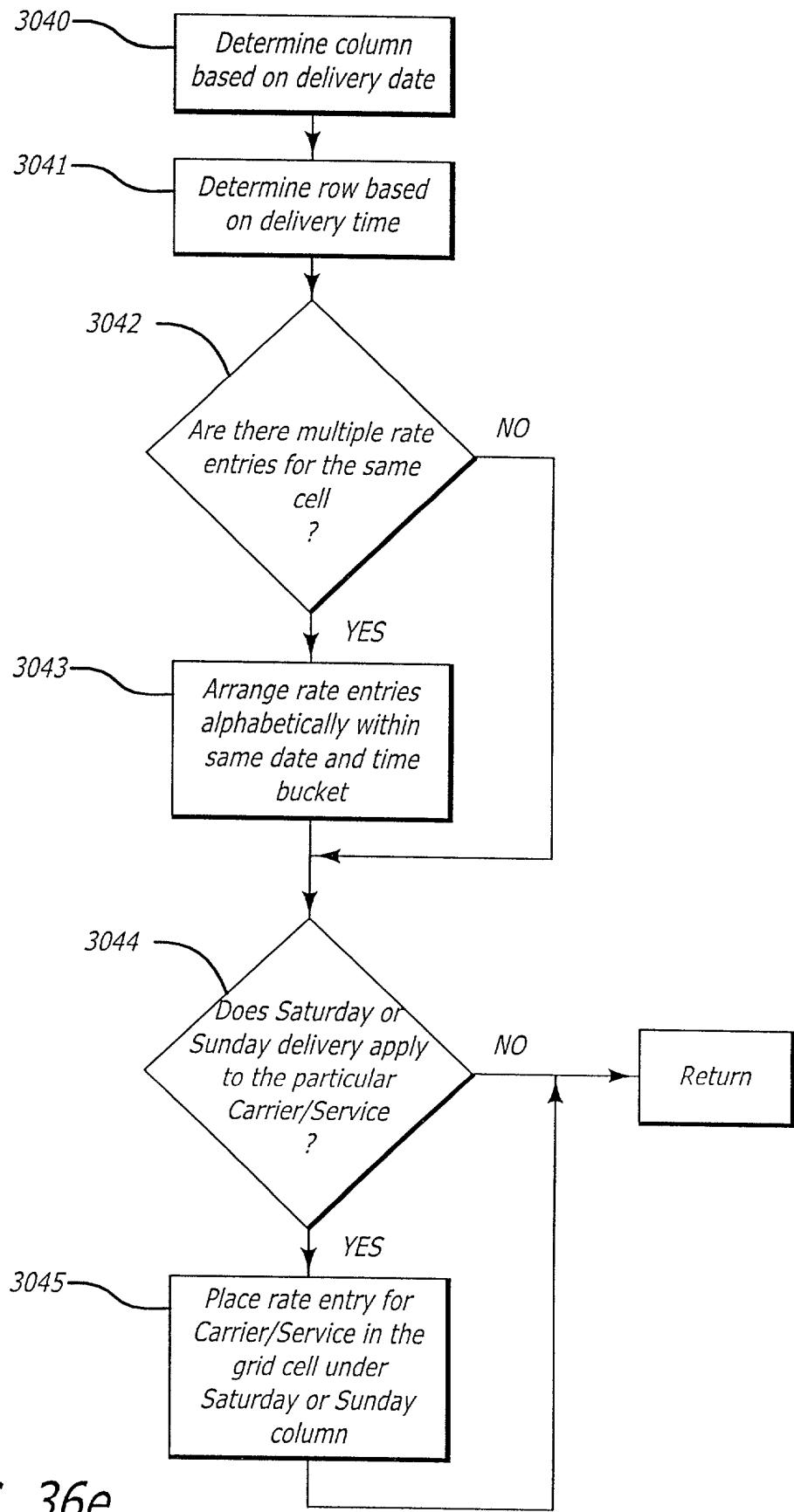


FIG. 36e

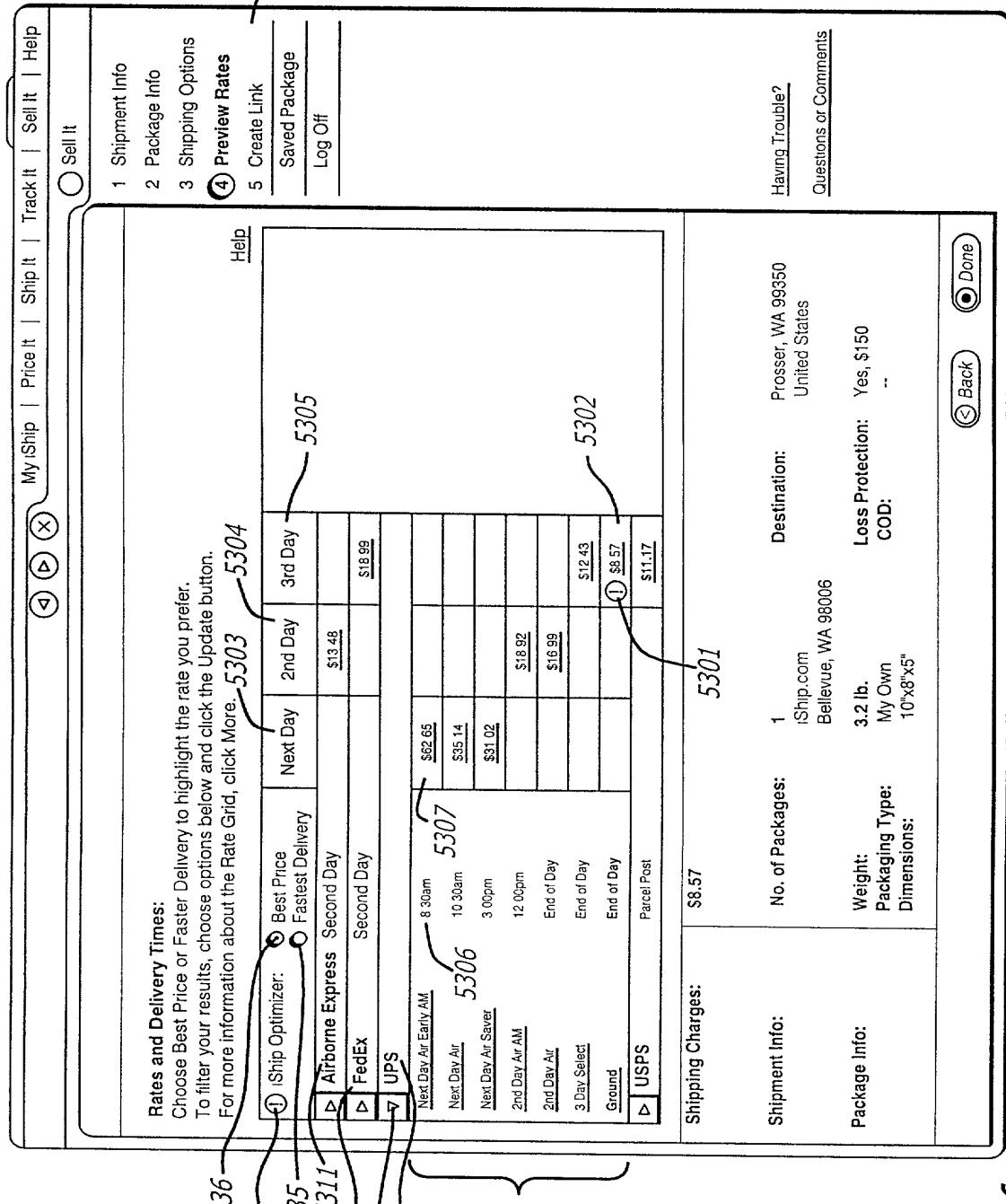


FIG. 36f

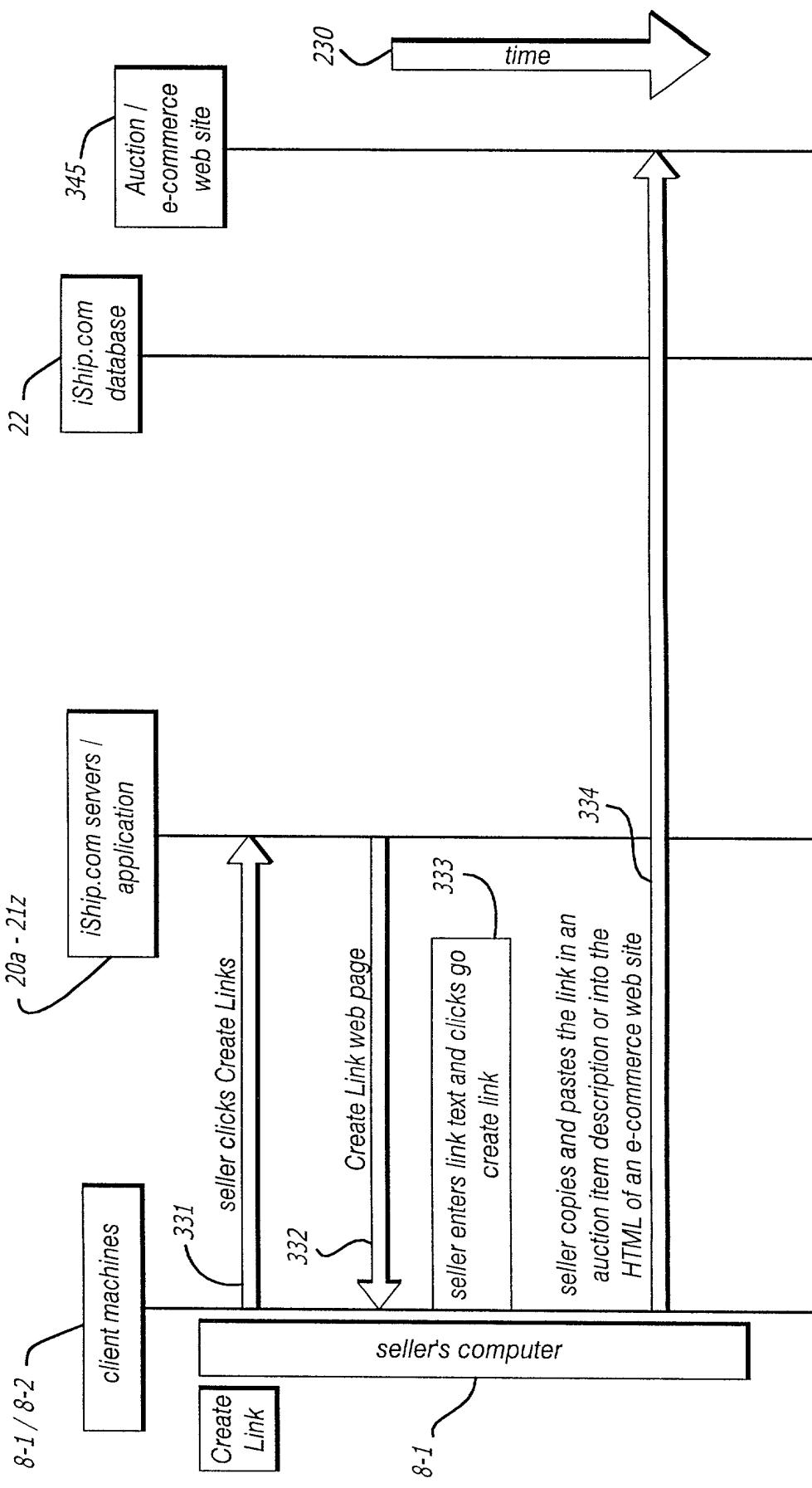


FIG. 37a

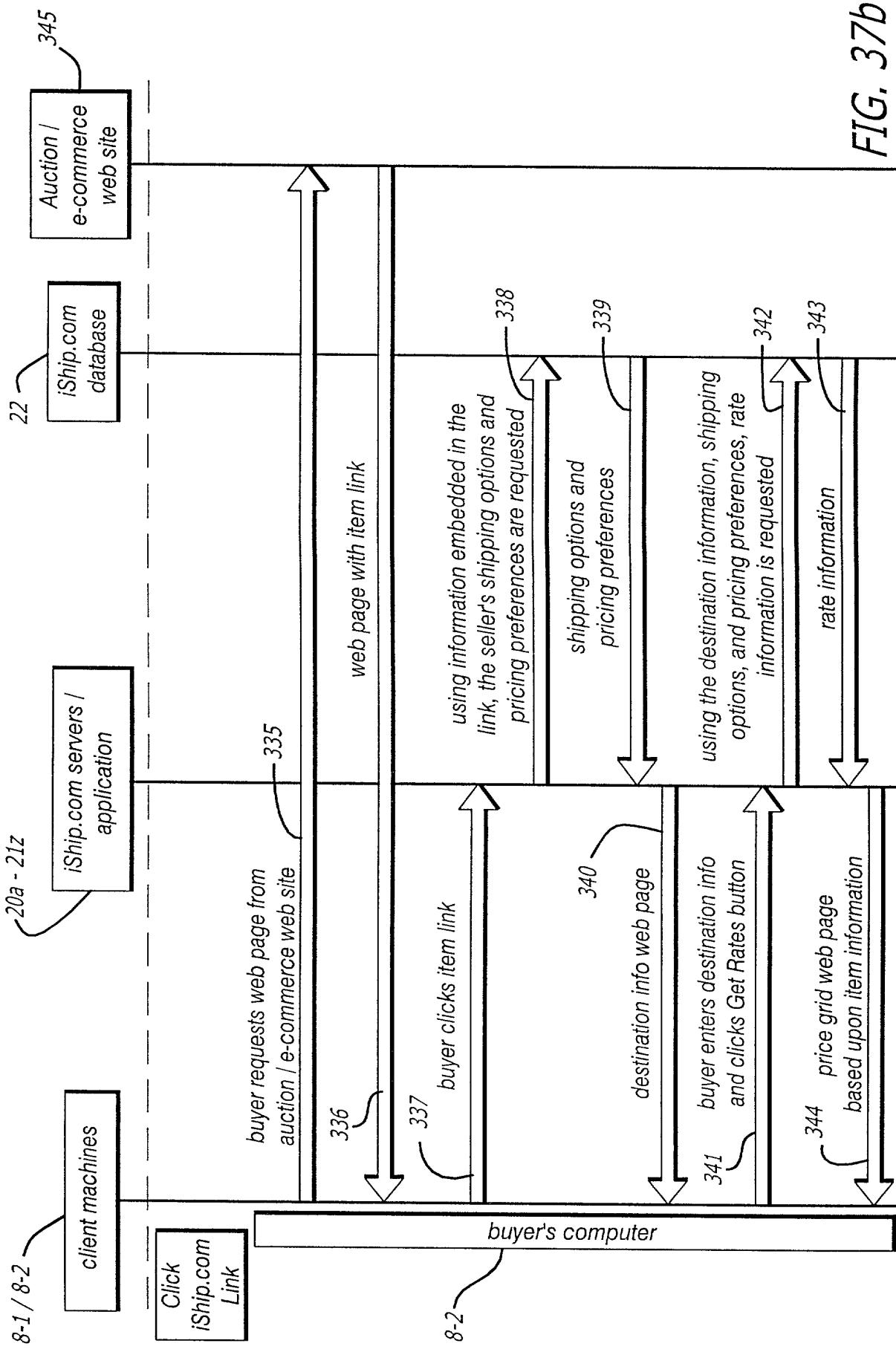


FIG. 37b

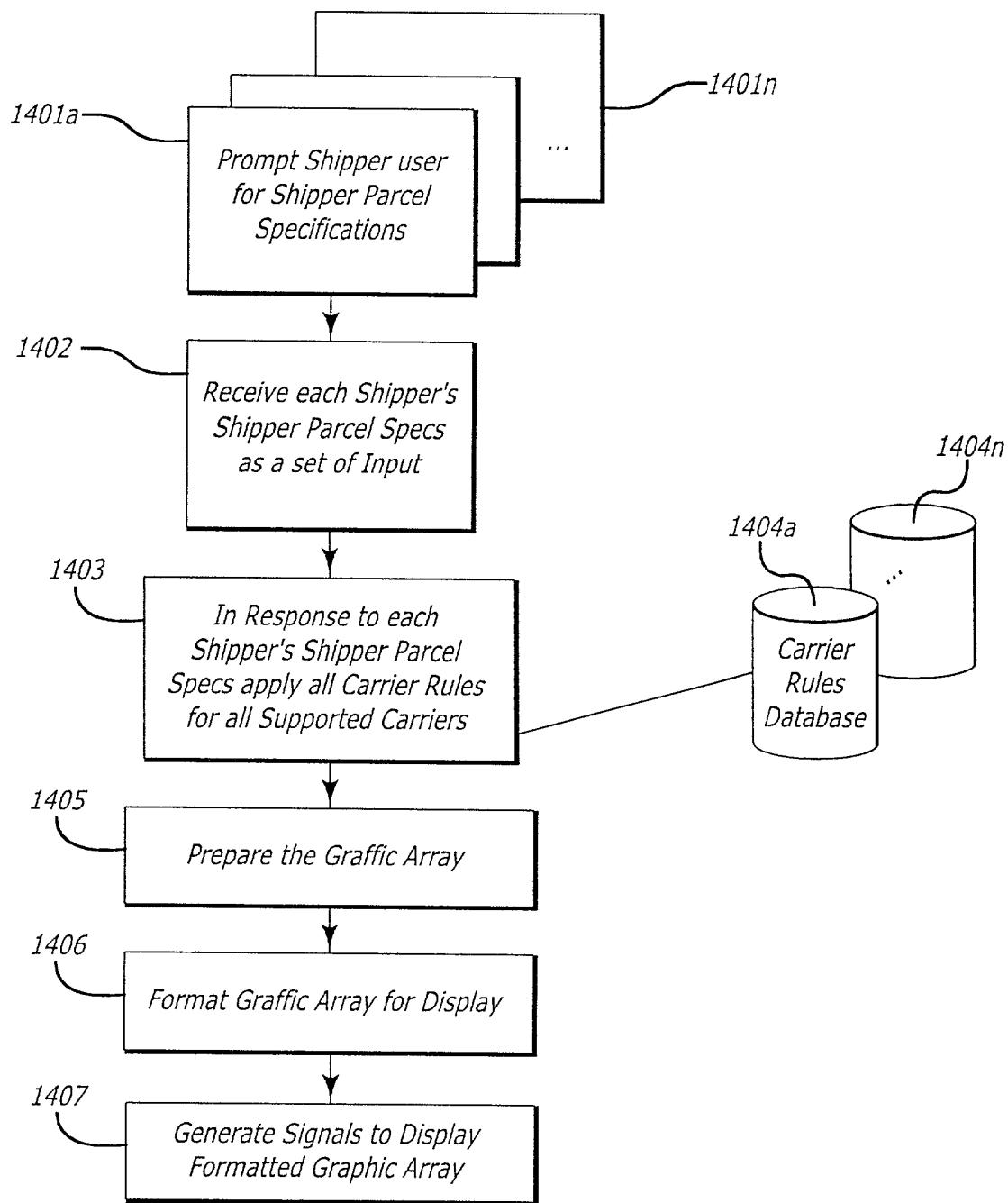


FIG. 38

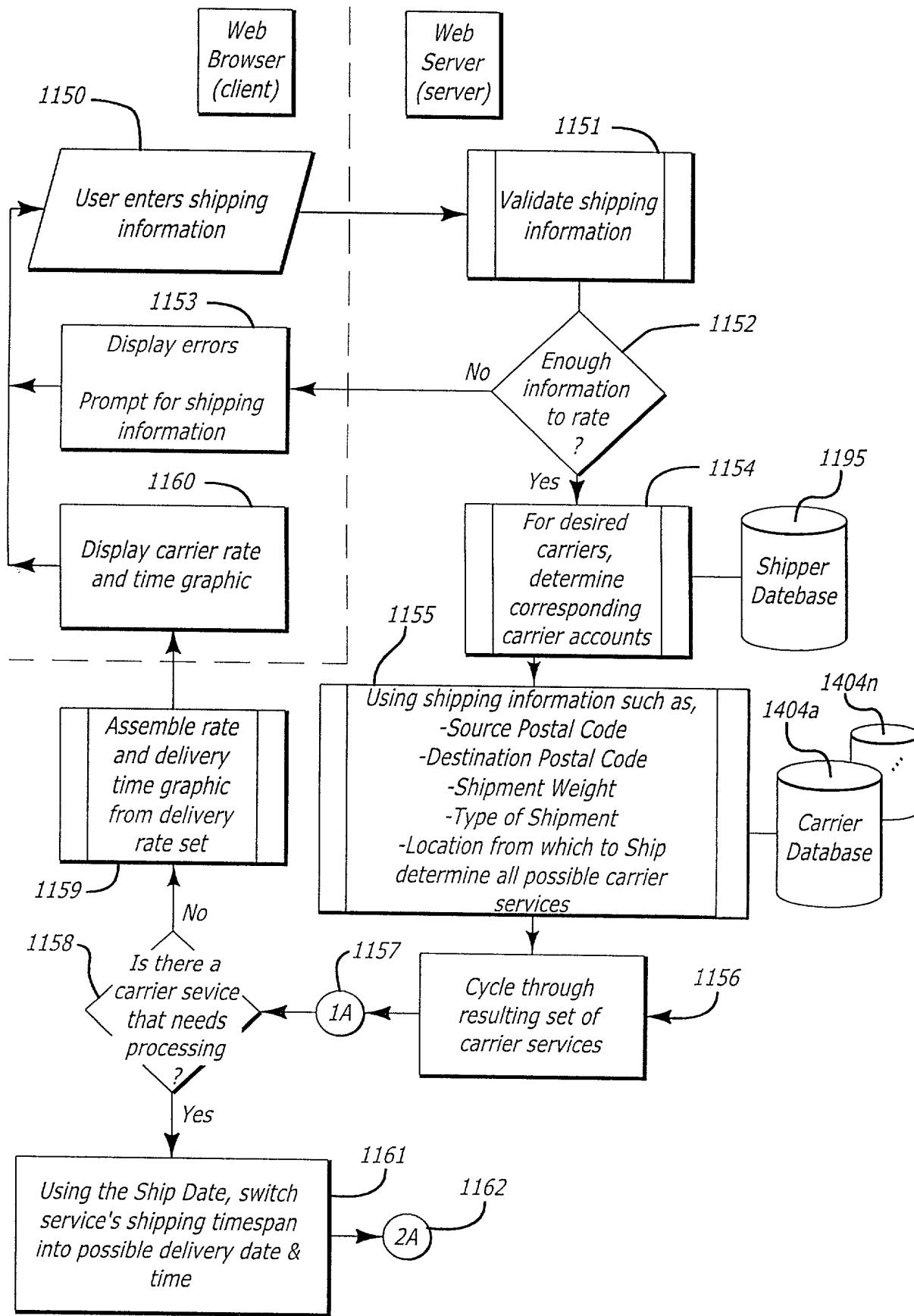


FIG. 39a

FIG. 39b

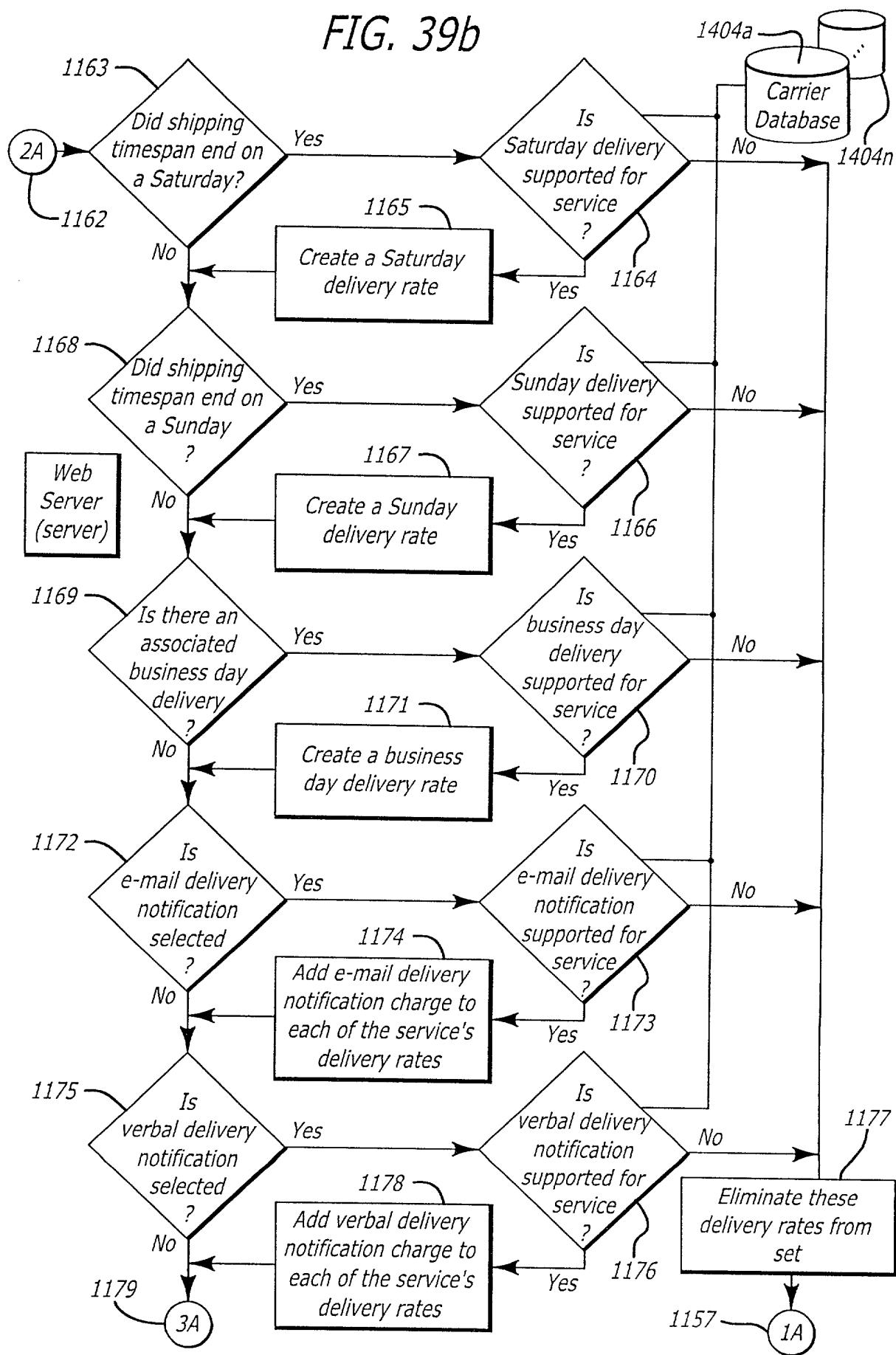
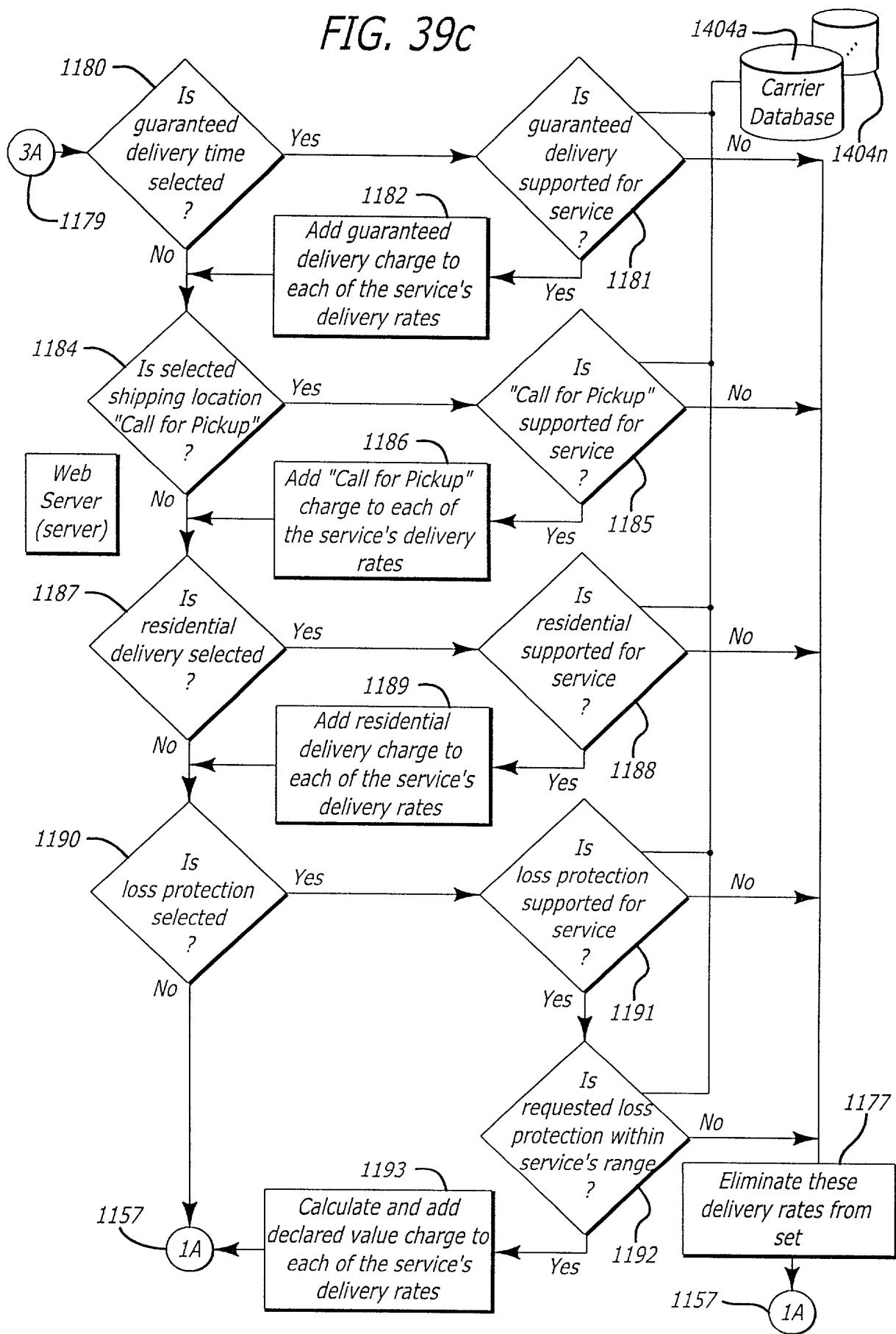


FIG. 39C



iShip.com

The Internet Package Shipper

RATES & DELIVERY TIMES - Place cursor over square next to the rate to view carrier and service.

	THU	FRI	MON	WED	Carriers
10:30 AM	<input checked="" type="checkbox"/> \$52.25		13 NOV 98	16 NOV 98	<input checked="" type="checkbox"/> Airborne
12:00 PM		<input checked="" type="checkbox"/> \$29.35			<input checked="" type="checkbox"/> FedEx
3:00 PM		<input checked="" type="checkbox"/> \$40.10			<input checked="" type="checkbox"/> UPS
5:00 PM		<input checked="" type="checkbox"/> \$21.25	<input checked="" type="checkbox"/> \$16.40	<input checked="" type="checkbox"/> \$7.28	<input checked="" type="checkbox"/> USPS

320

USPS Priority Mail

Enter your Zip Code and other options, then click Get Rates

• The Zip Code where the item would be delivered is:

• The delivery address for the item would be:

Business

Residence

• I want the service to have a guaranteed delivery time:

Yes

No

Click the 'Back' on your browser to return to item page

Shipping services and rates provided by [Ship.com](#), The Internet Package Shipper

FIG. 40

XXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address

Home Sell It Ship It Track It Help iShip.com

Buyer

My E-Commerce

31b-1 Selling Preferences

31b-2 Create Link

31b-3 Request Buyer Info

31b-4 Log Off

When you are ready to complete the sale with your Buyer, enter the Buyer's Name and E-Mail along with information about the item you are selling. When you have finished, iShip.com will send an e-mail to the Buyer and collect their Shipping Address, Service Selection and Payment Method.

350

When the Buyer has provided the information you will be notified by e-mail and an entry will be placed in your Shipping Log.

351

Buyer Name: 352

E-Mail: 353

Order / Item #: 354b

Description of Goods: 354c

354a

Message to Buyer: 355b

355a

355c

102

104

105

Next>> Cancel Help

Request Buyer Info Internet

FIG. 41

XXXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address

Home Sell It Ship It Track It Help

iShip.com

My E-Commerce Enter the shipping weight and value of the item.

Selling Preferences **358-1** **359**

Create Link **358-2** **359** **Irregular or Non-Standard Packaging**

*Additional charges may be applied if the weight entered differs from the actual weight when shipped.

Request Buyer Info **360** **Basic Coverage**** **361** **362**

**Up to the first \$100.00 except Express mail which is up to the first \$500. Priority Mail has no basic coverage.

Log Off Enter costs displayed to the Buyer.

Until your Buyer selects the service by which they want the item shipped, they (and you) may not be aware of the total amount you are owed. By entering the cost of the item being sold, the Buyer will be displayed the total of the item Cost and Shipping Charges.

363 Show total of the item Cost and Shipping Charges **364**

When you are ready to send an e-mail to your Buyer requesting their shipping information, click **Send**.

Request Buyer Info

FIG. 42

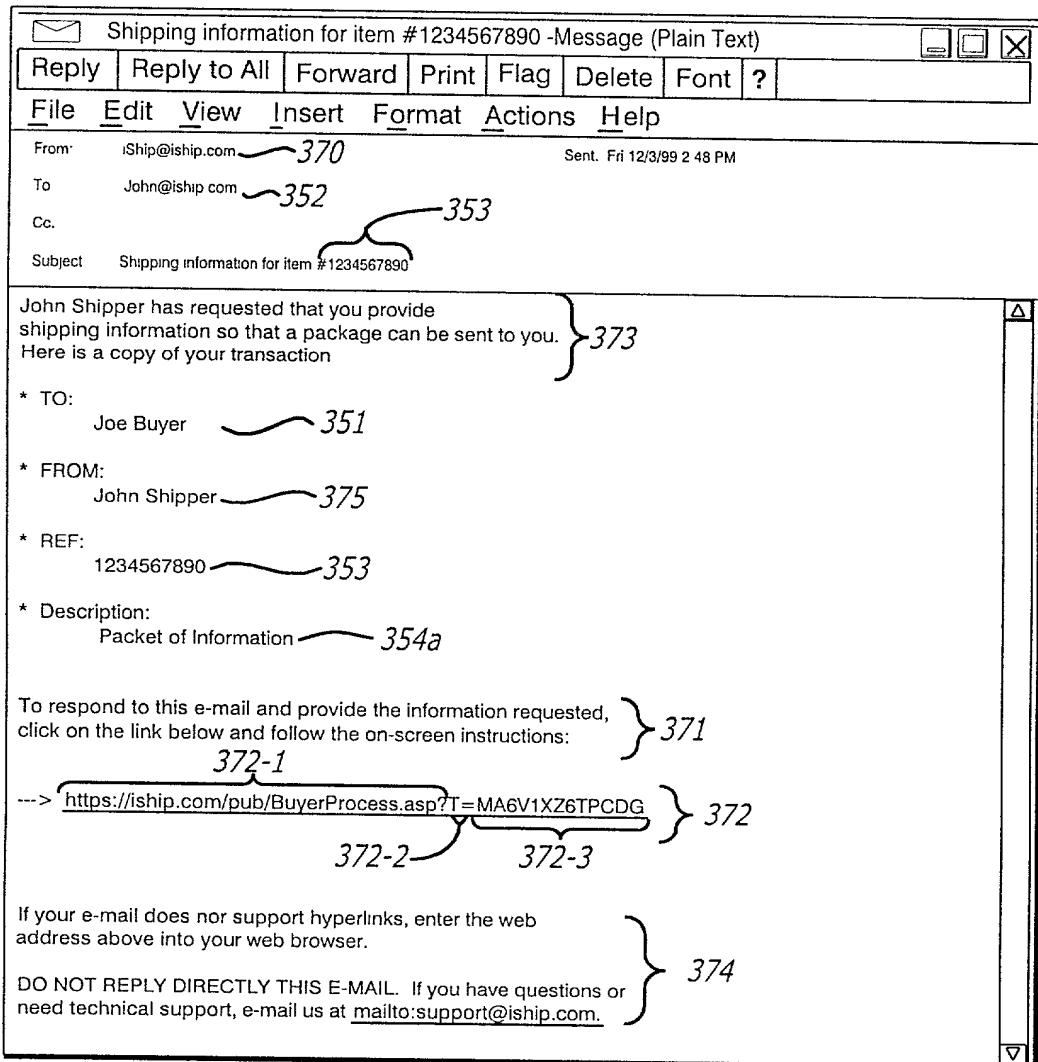


FIG. 43

iShip. com

The Internet Package Shipper

John Shipper of Some Company is requesting shipping information for the item (#1234567890) you purchased. To make this process as easy as possible, you are asked to complete the steps described below:

1. Enter your shipping address. This is the location you want the item delivered.
2. Choose how you want the item to be sent. You will be shown all the services that apply.
3. Review Costs and indicate Payment Method. Before submitting your information you will be able to review it for accuracy.
4. Submit your information to John Shipper of Some Company.

The process is quick, simple and secure. If you are ready to begin, press Next.

[Next >>](#)

If you do not want to provide the requested information or are no longer interested in purchasing the item, click on the checkbox below. Please provide a brief message indicating why. This message will be sent to John Shipper of Some Company.

I do not want to provide the information requested.

384-1

384-2

384-3

Send

383

382

This is a secure transaction!

FIG. 44

iShip. com

The Internet Package Shipper

Enter your shipping address, then click Next.

389



This is a secure transaction!

Company/Name: 390

Attention: 391

Street: 392

Floor/Room: 393

Department: 394

City: 395

State: 397

Zip Code: 399

Telephone: (888)888-8888 396-2

Fax: (888)888-8889 396-1

This address is a: Business Residence

400 401

<< Back Next>> Help 102 105

117

FIG. 45

iShip. com

The Internet Package Shipper

To select a service, click on a rate.

RATES & DELIVERY TIMES - Place cursor over square next to the rate to view carrier and service

	THU	FRI	MON	WED	
10:30 AM	\$52.25				Carriers
12:00 PM		\$29.35			<input checked="" type="checkbox"/> Airborne
3:00 PM		\$40.10			<input checked="" type="checkbox"/> FedEx
5:00 PM		\$21.25	\$16.40	\$7.28	<input checked="" type="checkbox"/> UPS
					<input checked="" type="checkbox"/> USPS
					USPS Priority Mail

408

320

117

105

Select from these options, then click Get Rates

- I want the service to have a guaranteed delivery time:

Yes

No

405

406

407

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iShip.com

The Internet Package Shipper

Verify the information and select Payment Method, then click Send.

Address

Some Company
1234 X Ave.
Suite 4567
Marketing
Someplace, WA, 12345
Phone (888)888-8888
Fax (888)888-8889

Charges

The Shipping Charges are:	\$ 7.28
The Item Cost is:	\$ 500.00
The total amount you owe is: \$ 507.28	

412

Payment

Please select how you will pay for this item.

Payment Method:

413-1
413-2
414

Card No:

415-1
415-2
416-1
416-2

Expiration Date:

416-1
417
418

419

If the cardholder Name and Billing Address are not the same as the Shipping Address entered, click Cardholder Information.

<< Back Cardholder Information Send Help

417
418
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410
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412
413-1
413-2
414
415-1
415-2
416-1
416-2
417
418
419

FIG. 47

1110

Summary	
Origin Zip:	98005
Destination Zip:	80302
Est. Weight:	5 lbs Billed Weight 5 lbs
Service:	FedEx Priority Overnight
Service Options	Declared Value \$750.00 E-Mail Notification Signature not required Service must be guaranteed Verbal Notification
Package will be shipped from. Any Company 2515 140th Ave. NE Suite E110 Any Town, WA 98005	
Charges	
Base Service Charger	\$57.50
Declared Value	\$6.00
Verbal Notification	\$7.50
E-Mail Notification	\$0.25
Total Charge	\$71.25

If you would like to ship this package, press "Next"

1111

Compare Services	
<<Back	Next>>
Reset	Cancel
Help	

102

FIG. 48

iShip.com

The Internet Package Shipper

Enter the Cardholder information, then click Next.

- Enter the Name as it appears on the card.
- Enter the billing information as it appears on your card statement.

Name: 420

Street: 421

State: Zip Code: 423

422-1 422-2

<< Back 424

FIG. 49

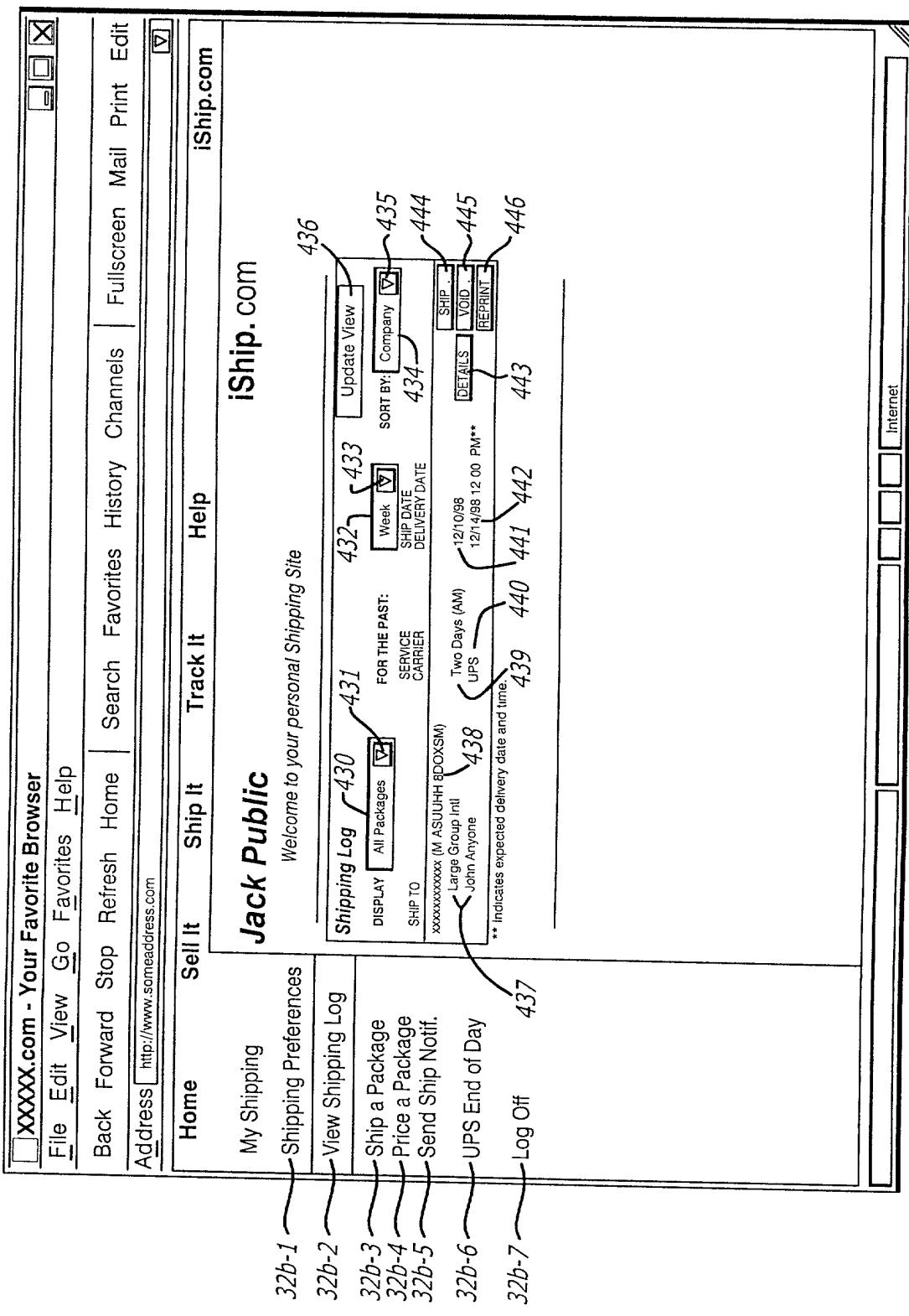


FIG. 50

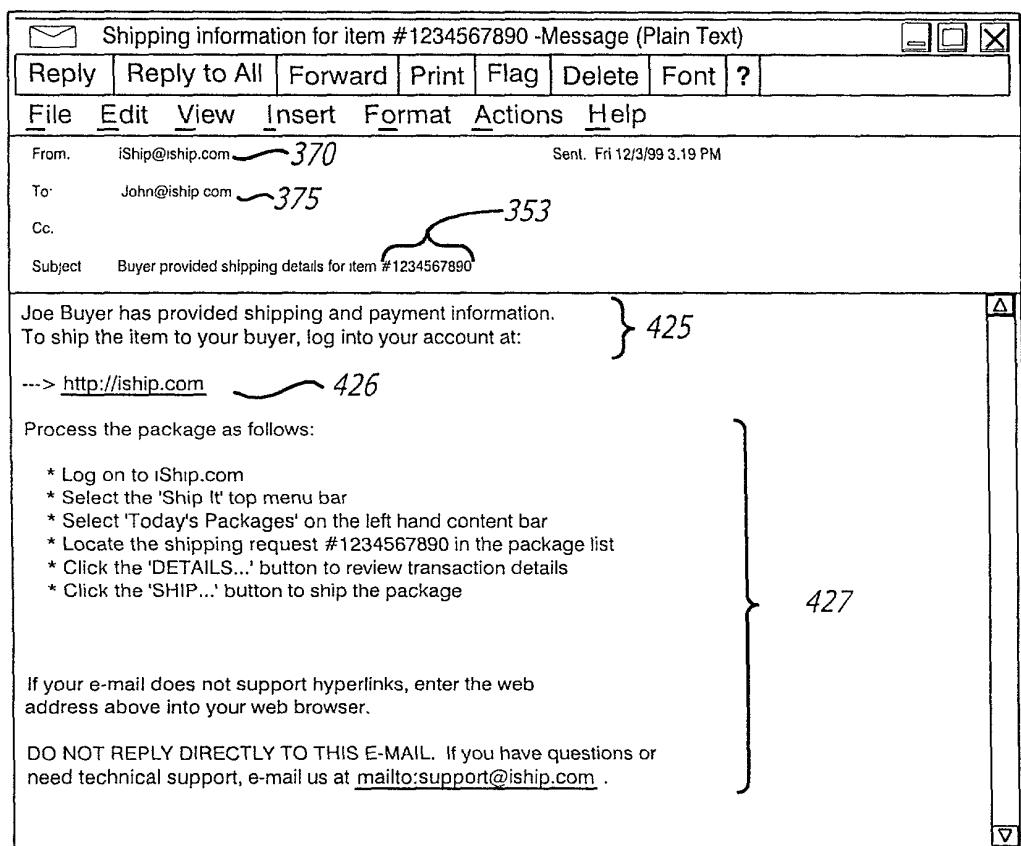


FIG. 51

Package Confirm that this is the correct package before continuing.

Recipient: Mary Jones Some Company 28 Your St. SW Any Town, IL 60600	Est. Weight: 5 lbs Billed Weight: 5 lbs. Packaging: Other L 25 5 in W 25 5 in H 25 5 in Service: FedEx Priority Overnight Service Options: Declared Value \$ 750.00 E-Mail Notification Signature not required Service must be guaranteed Verbal Notification Reference #1 ABCDEFGHIJKLMNO Reference #2: 123456789012345 Desc. of Goods: 20 Anti-Roadrunner Heat Seeking missiles ARHS Mobile Launch System
--	---

View Details 451

If the package above is the package you want to void, press the "Void Package" button

452

VOID PACKAGE 453

Void Package **Cancel** **Help**

FIG. 52

Package Confirm that this is the correct package before continuing

Recipient: Mary Jones Some Company 28 Your St. SW Any Town, IL 60600	Est. Weight: 5 lbs Billed Weight: 5 lbs. Packaging: Other L 25 5 in W 25 5 in H 25 5 in Service: FedEx Priority Overnight Service Options: Declared Value \$ 750.00 E Mail Notification Signature not required Service must be guaranteed Verbal Notification Reference #1 ABCDEFGHIJKL MNO Reference #2: 123456789012345 Desc. of Goods: 20 Anti Roadrunner Heat Seeking missiles ARHS Mobile Launch System
--	--

View Details 451

To Reprint your shipping label:
 1. Make sure your printer is running, has paper and is setup to print in "Portrait" mode.
 2. Press the "Generate Label" button below.
 3. Using your browser's "Print" command, print the shipping label.

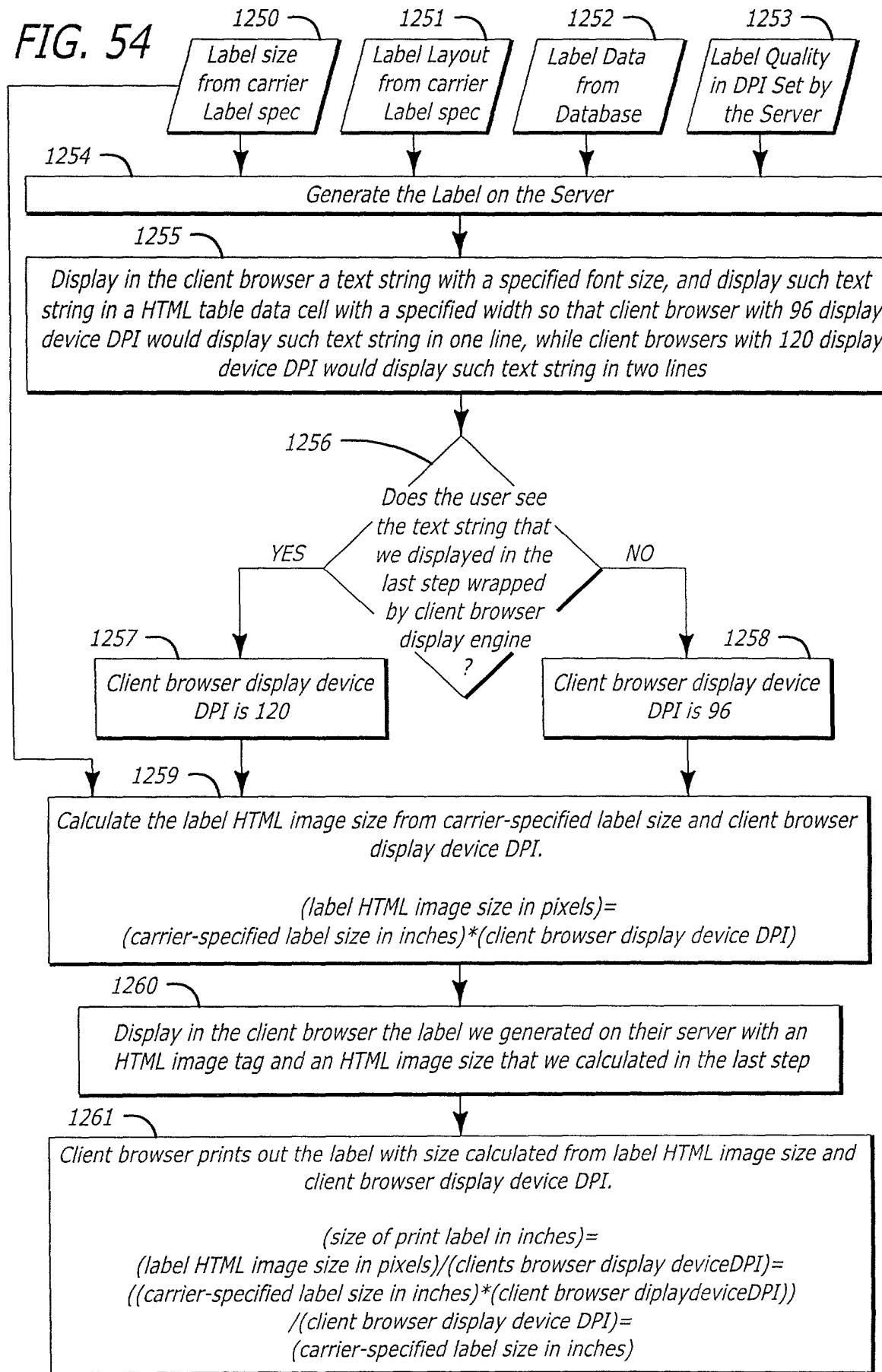
454

Reprint Label 455

Generate Label **Cancel** **Help**

FIG. 53

FIG. 54



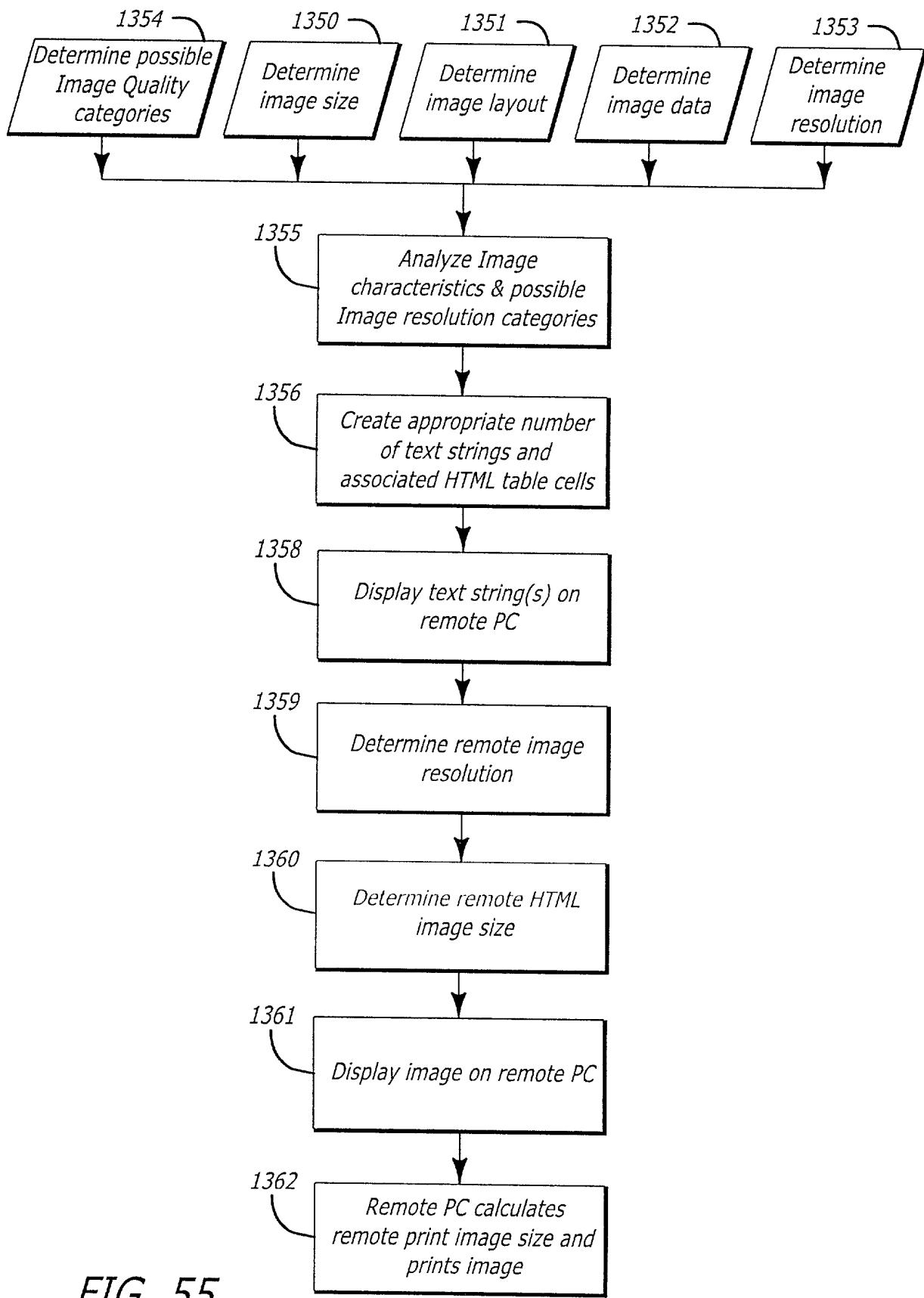


FIG. 55

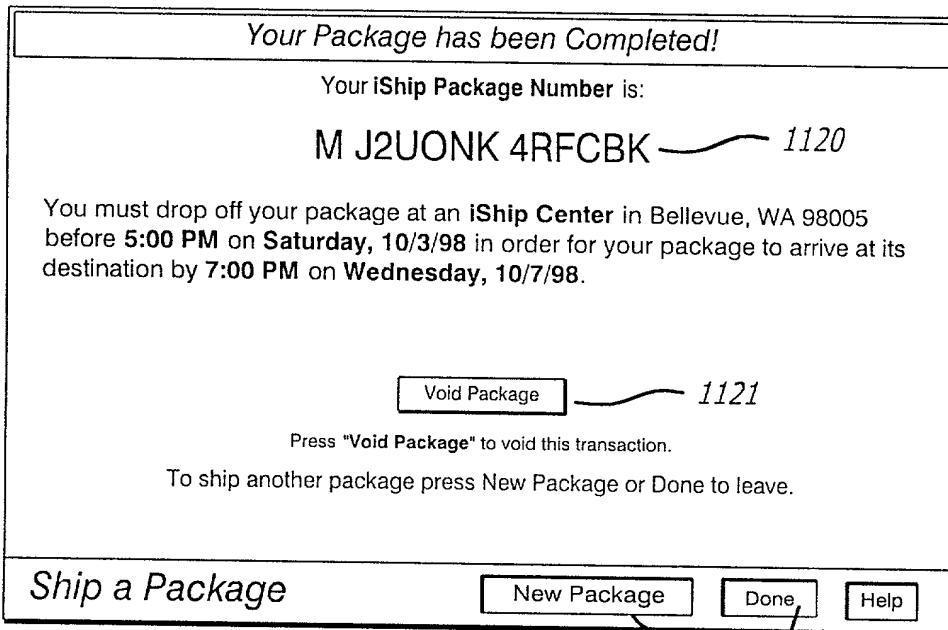


FIG. 56

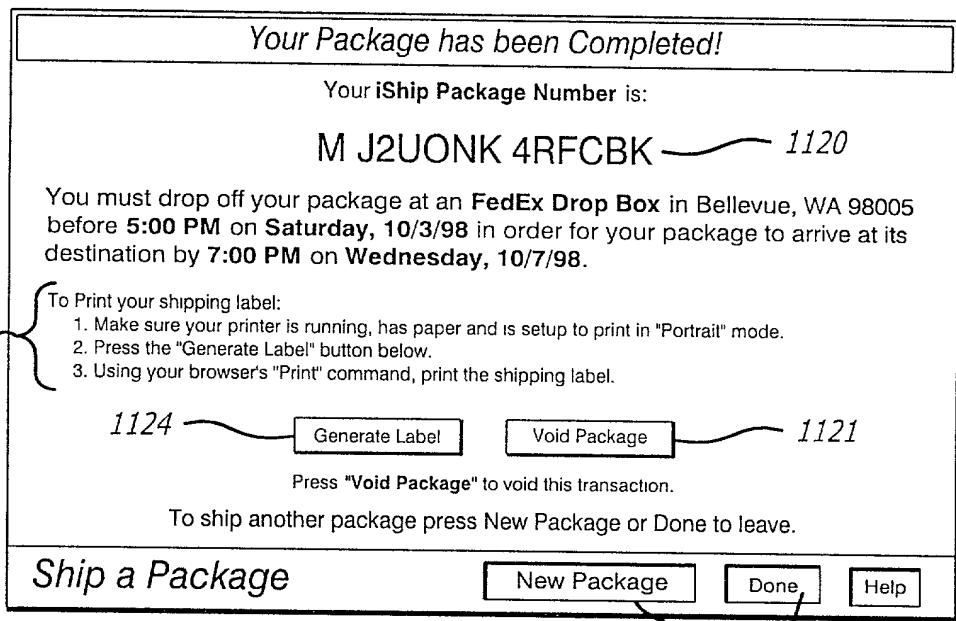
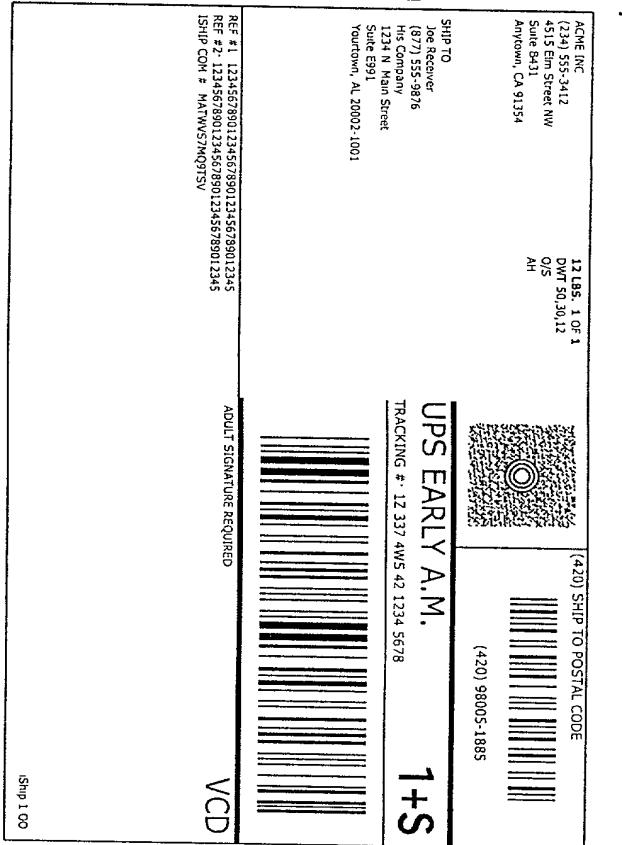


FIG. 57



xxxxx.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address

Home Sell It Ship It Track It Help iShip.com

Complete the fields below to notify your Buyer when the item is shipped.

To send a Ship Notification e-mail, complete the required fields and press Send.

You can include a brief message with the Notification.

Name: <input type="text" value="Jonathan Receiver"/>	E-Mail: <input type="text" value="jreceiver@somedomain.com"/>
I will ship my package on: <input type="text" value="12/9/98 - Today"/> <input type="button" value="V"/>	I am shipping my package with: <input type="text" value="Airborne Express"/> <input type="button" value="V"/>
The service is: <input type="text" value="Overnight Air Express"/> <input type="button" value="V"/>	The tracking number is: <input type="text"/> <input type="button" value="Δ"/> <input type="button" value="V"/>
Order/Item #: <input type="text" value="123412341234"/> <input type="button" value="V"/>	Reference #: <input type="text" value="234523452345"/> <input type="button" value="Δ"/> <input type="button" value="V"/>
Message: <input type="text"/>	

Send Ship Notification

FIG. 59

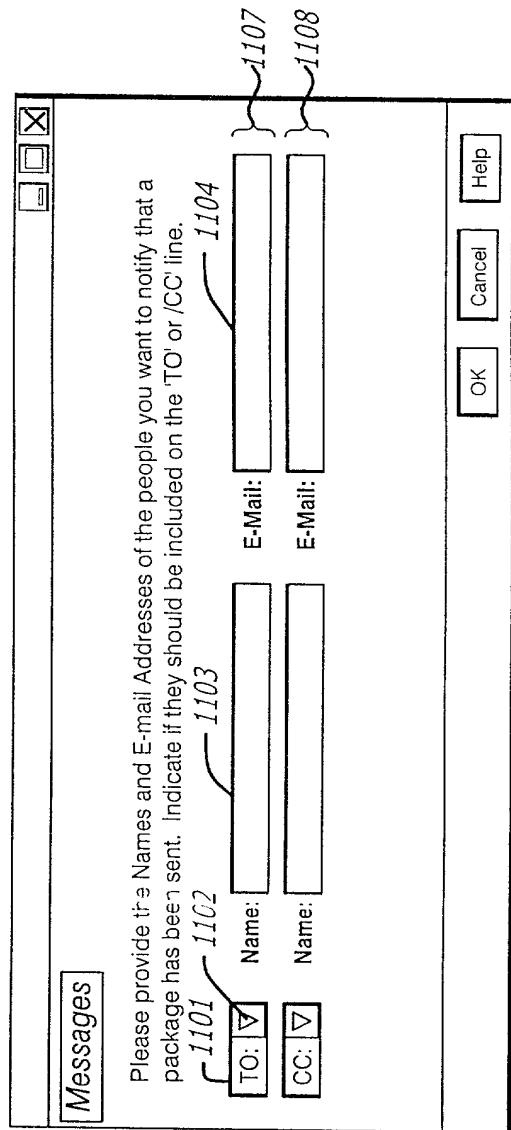


FIG. 60

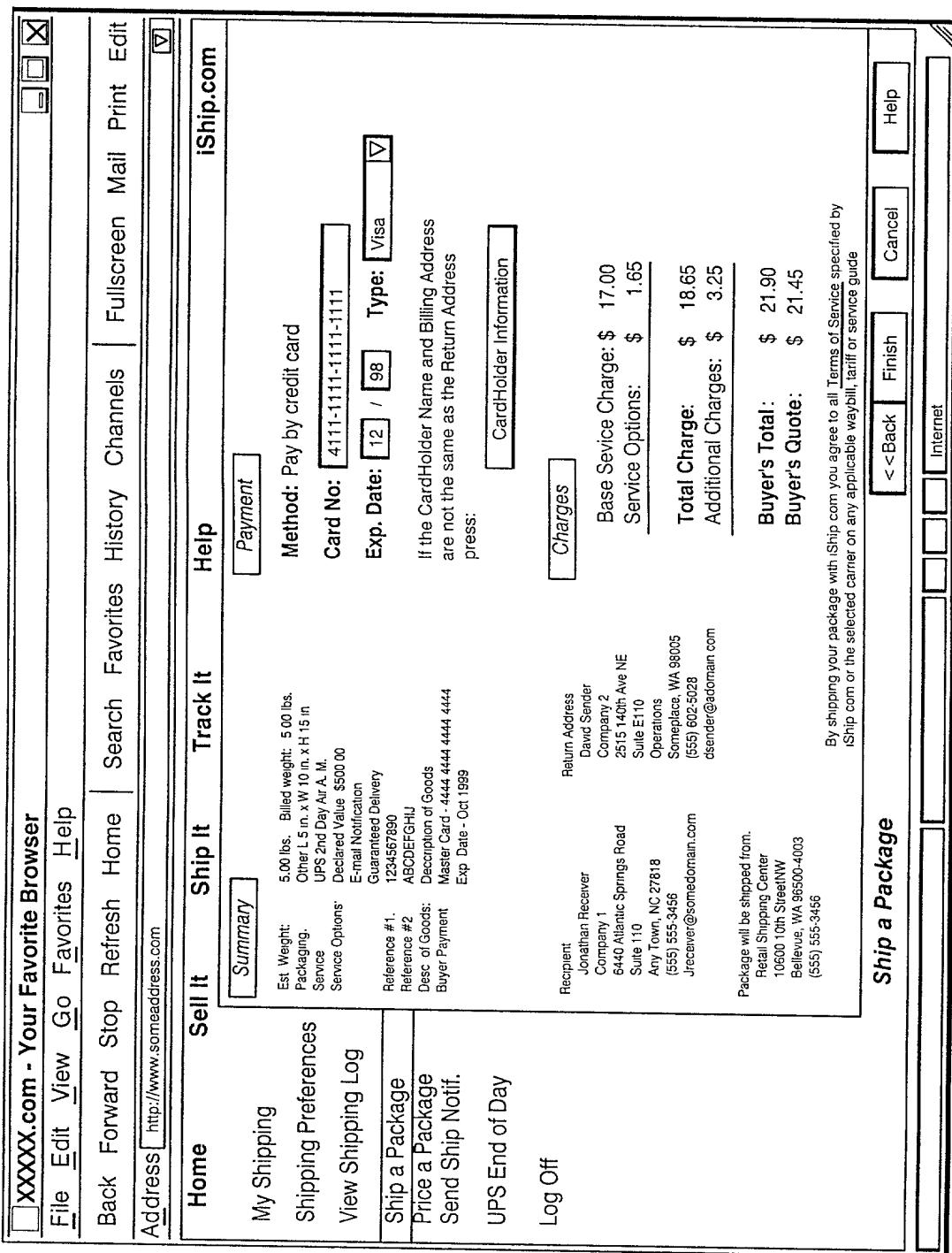


FIG. 61

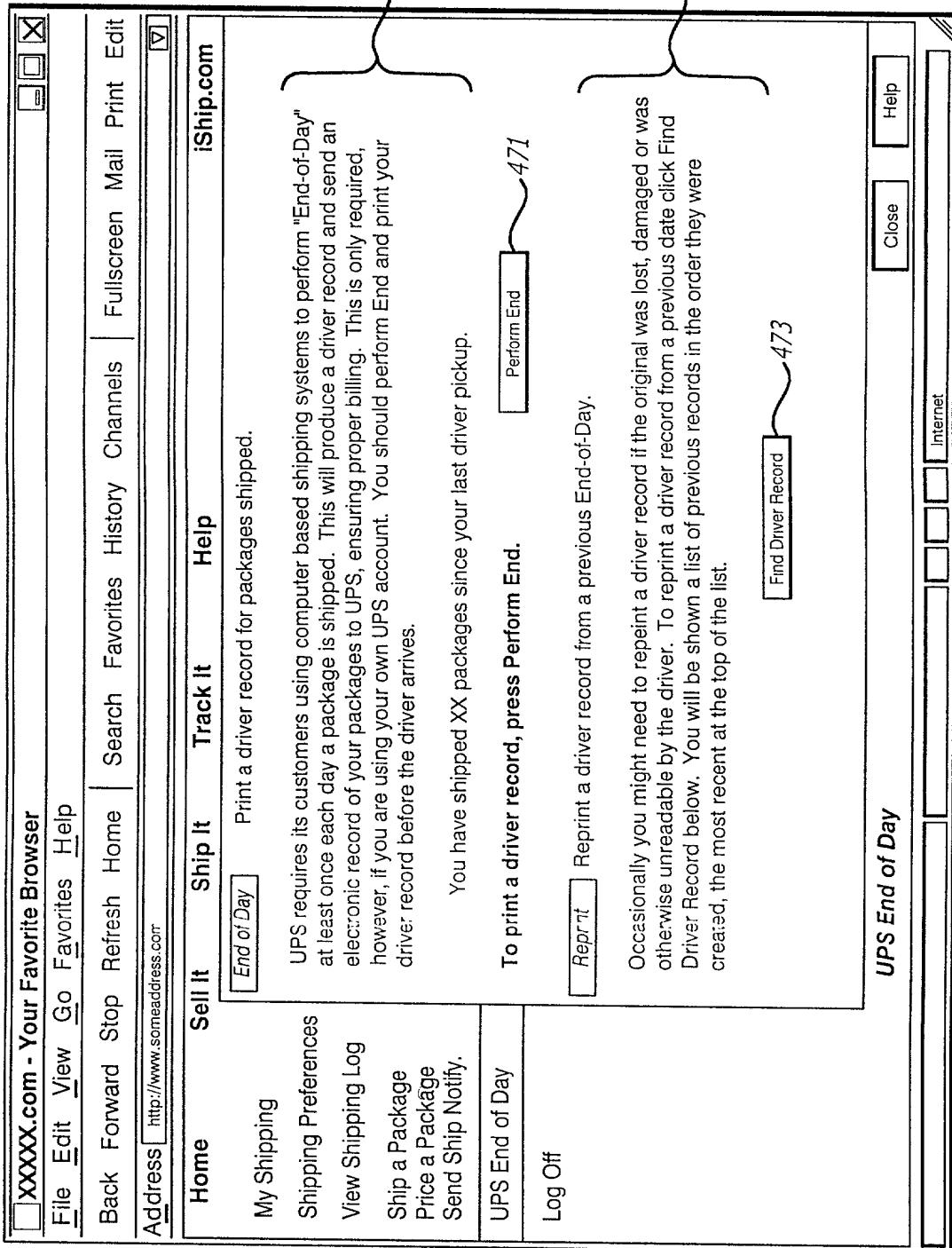


FIG. 62

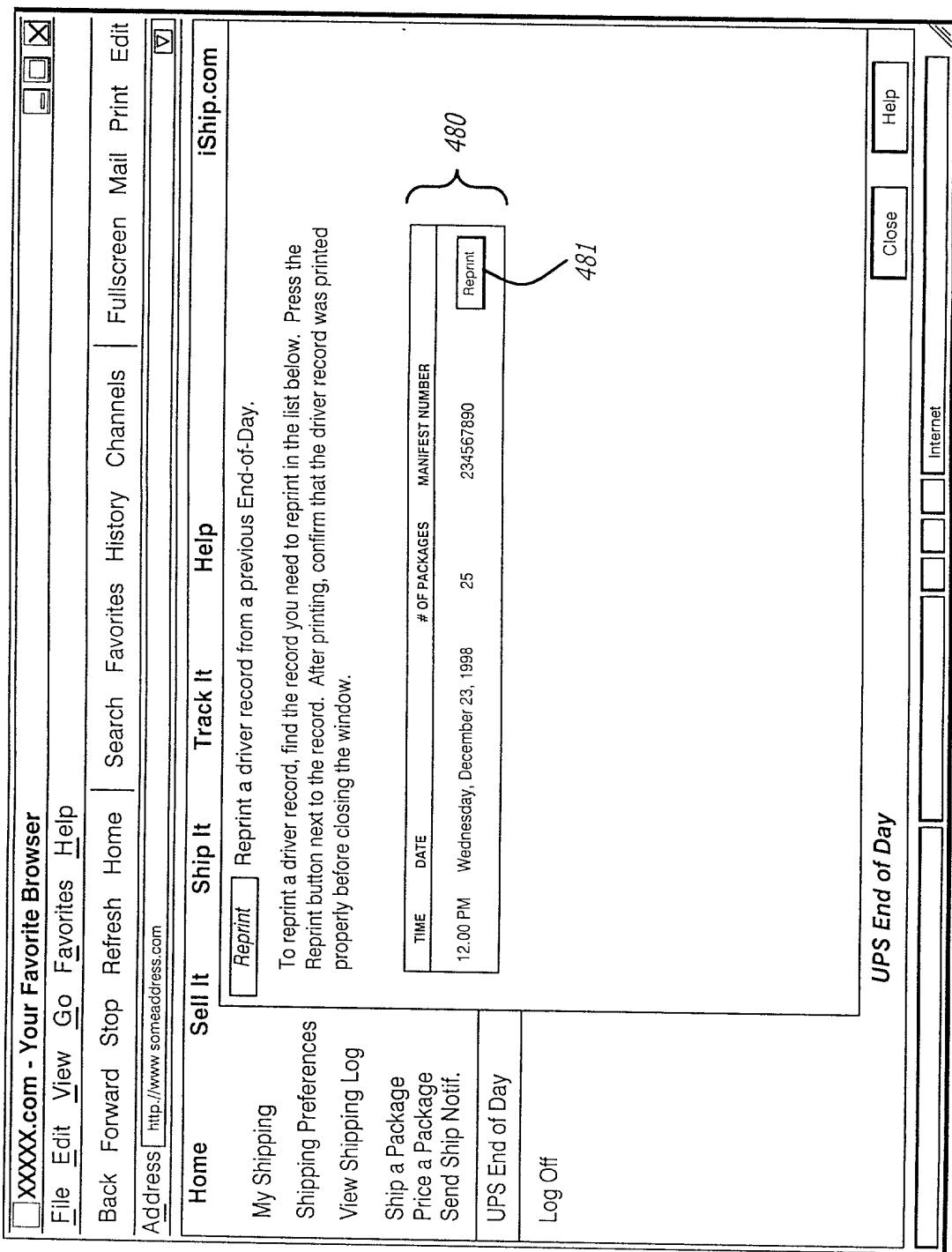
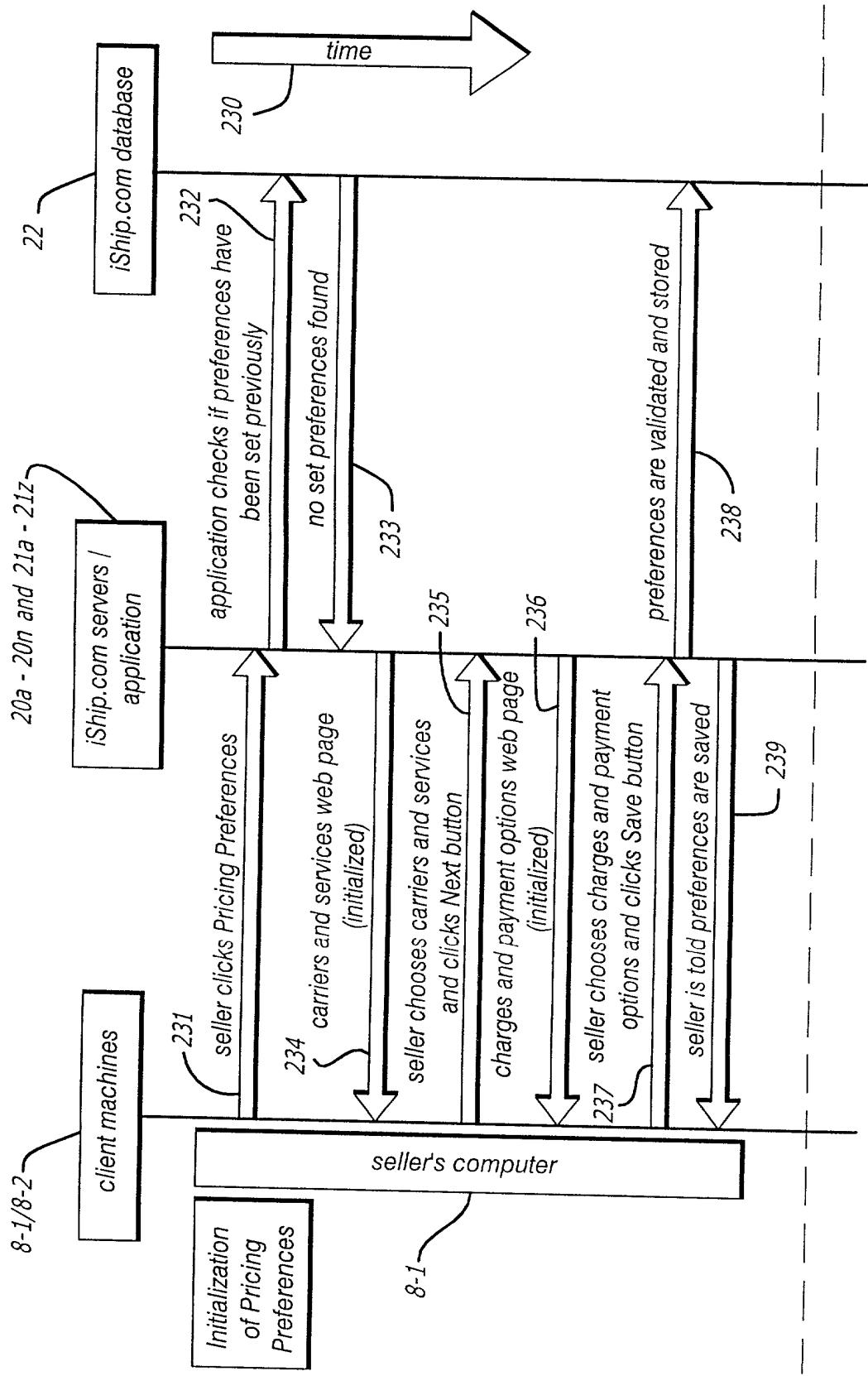


FIG. 63

FIG. 64a-1



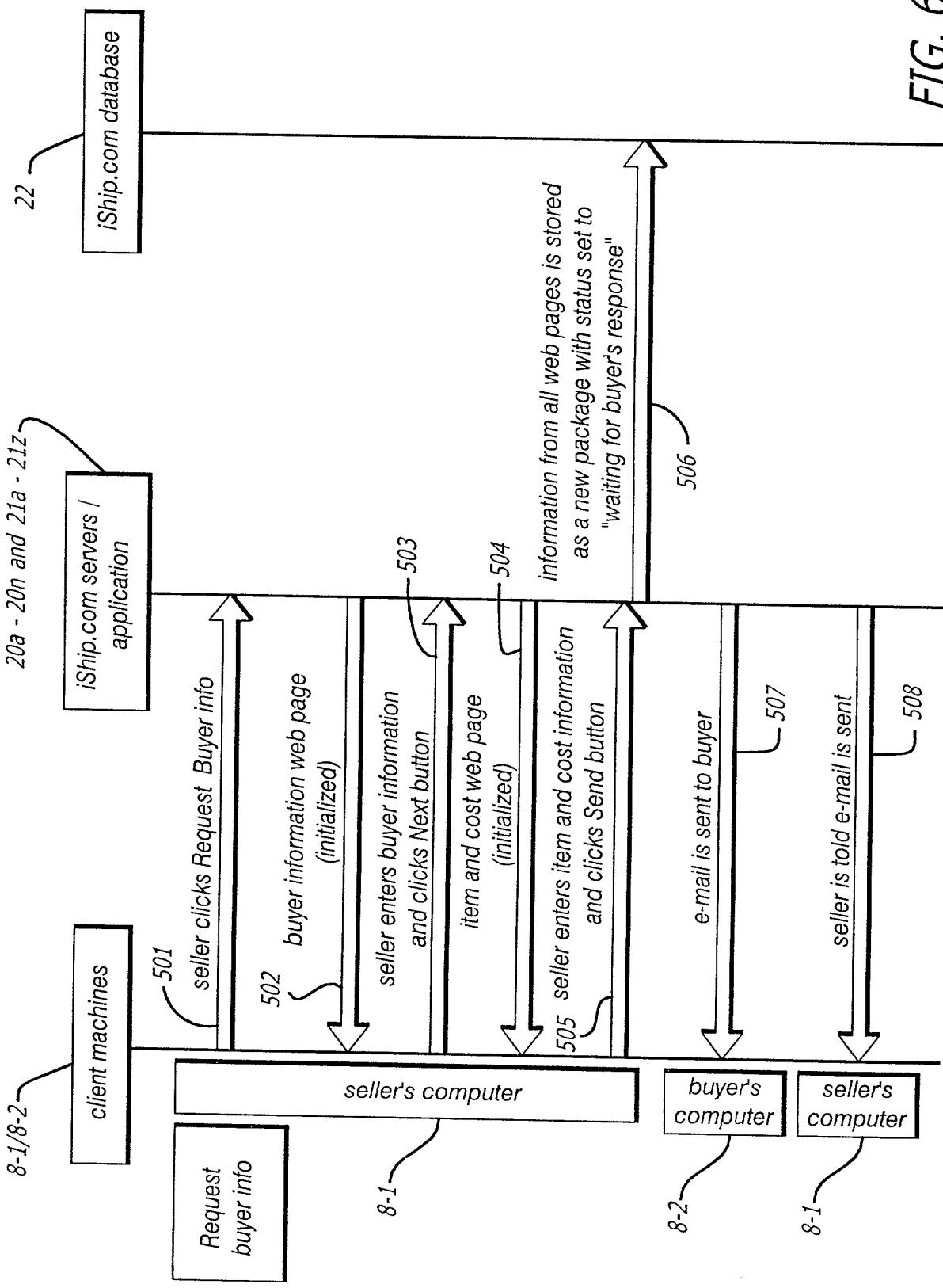


FIG. 64a-2

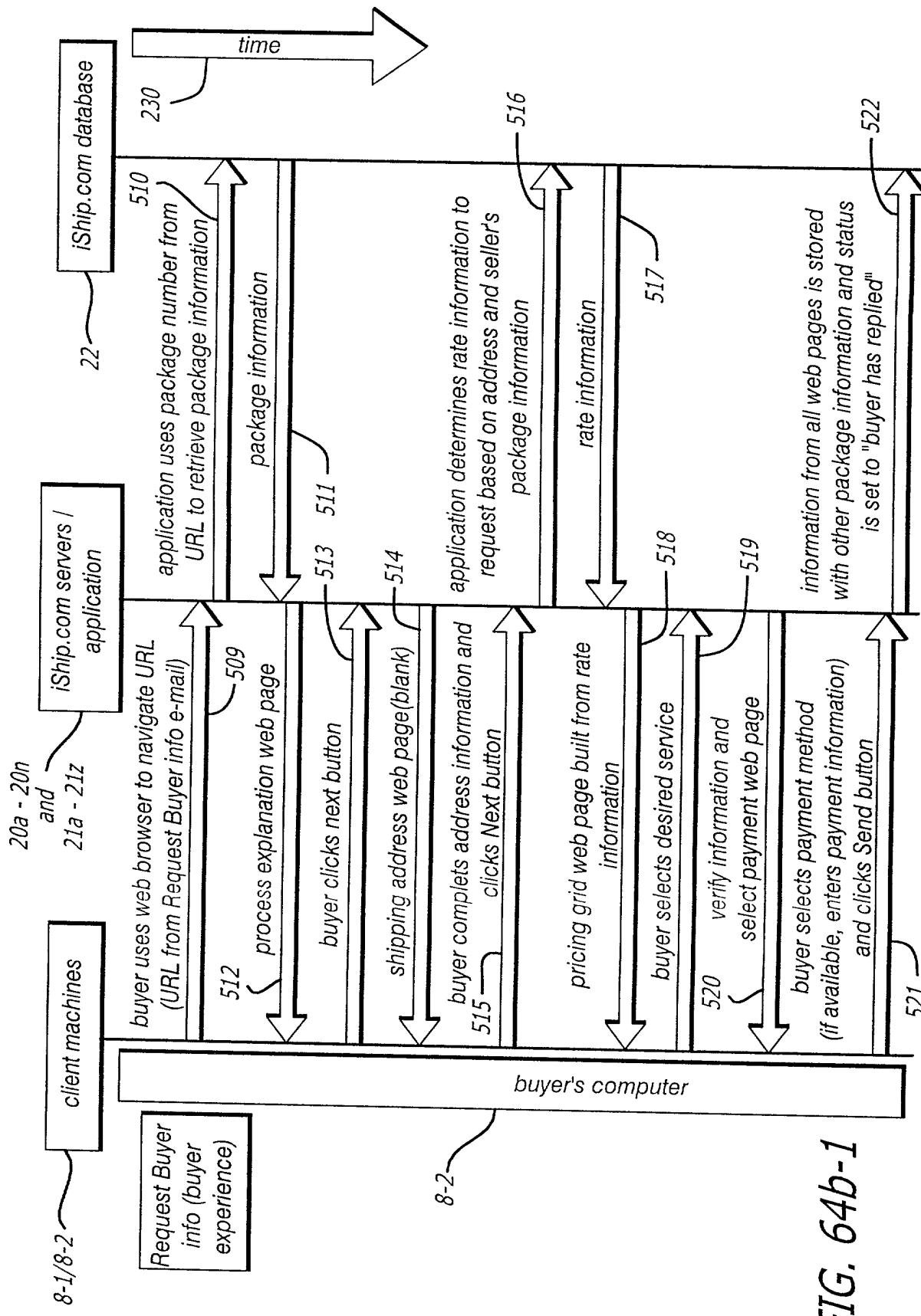


FIG. 64b-1

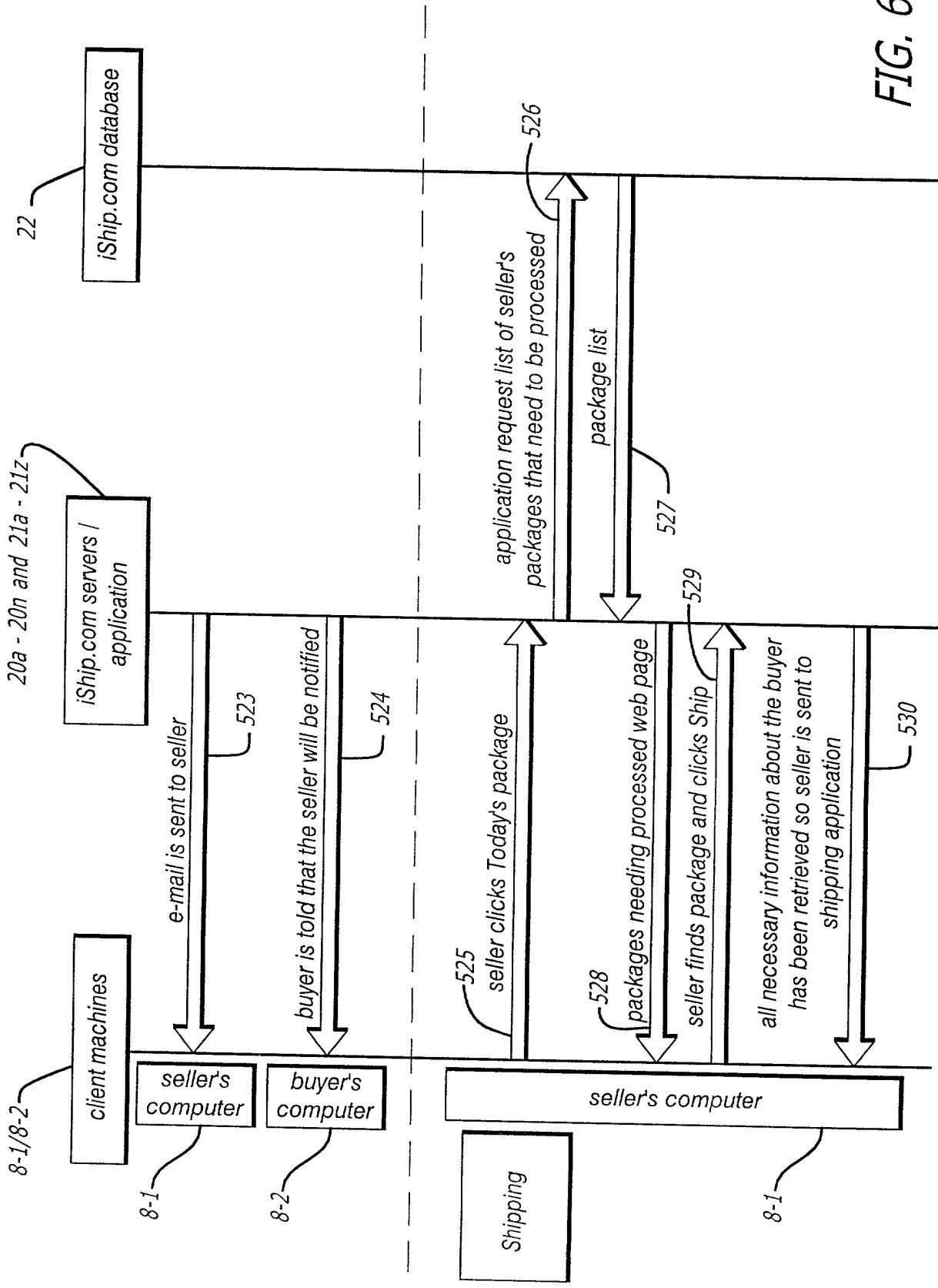


FIG. 64b-2

FIG. 65a

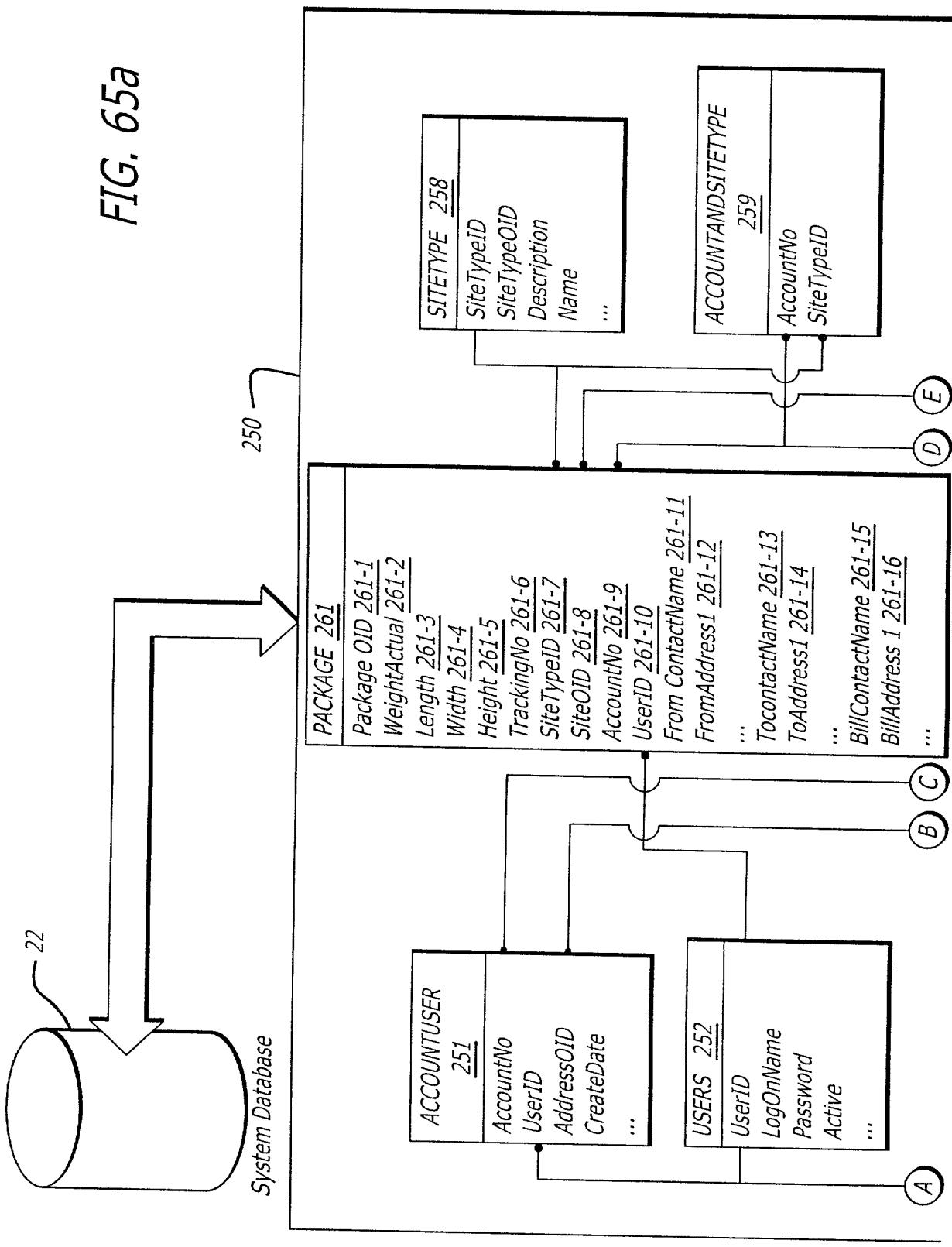
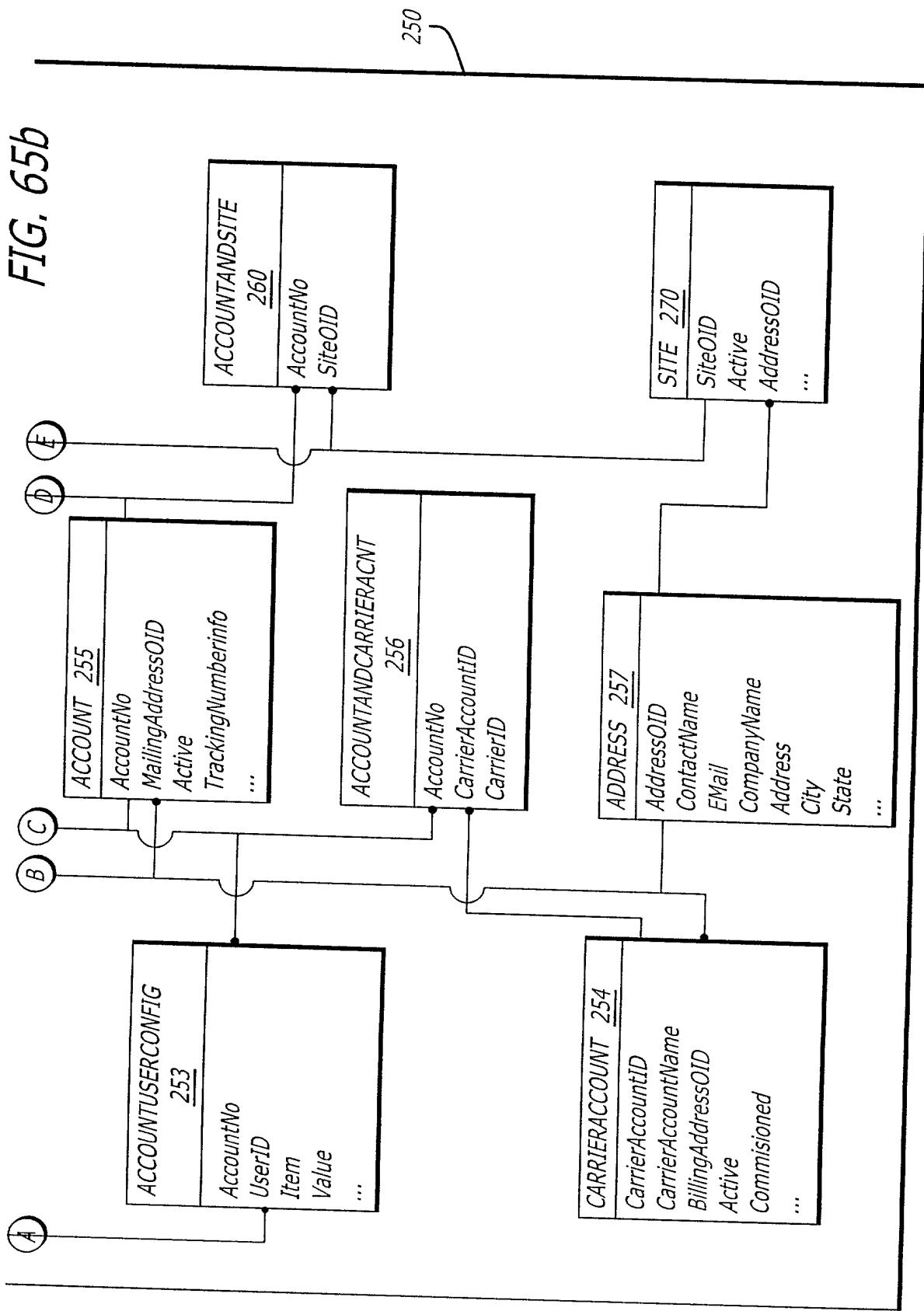


FIG. 65b



<iship.com.request xmlns="x-schema:http://iship.com/api/schema/trackrequest.xmi"
 transactionid="3855BD2185E111d3984400A0C9D6C226">
 <header mode="interactive">
 <version major="0" minor="1"/>
 <batch id="AE5E54F08E2311d3984900A0C9D6C226"
 url="http://shasta/api/track/trackresponse.asp" email="bob@iship.com"/>
 </header>
 <signon sessionid="" userid="test" password="77777777"/>
 <trackit>
 <package sequencenumber="1">
 <trackingnumber carrier="ups">
 1Z1812530202075466
 </trackingnumber>
 </package>
 </trackit>
 <logoff/>
</iship.com.request>

FIG. 66

<iship.com.response transactionid="3855BD2185E111d3984400A0C9D6C226">
 <status ishiprcode="0" signonrcode="0" trackitrcode="0" parsercode="0"
 systemrcode="0"/>
 <trackit>
 <package sequencenumber="1" packagercode="0">
 <deliveredto></deliveredto>
 <deliverylocation>LEFT AT 3S</deliverylocation>
 <signedby>HOWARD</signedby>
 <lastscan>9/1/99 1:50:00 PM DELIVERY </lastscan
 <status> Delivered</status>
 <deliverytime>9/1/99 1:50:00 PM</deliverytime>
 <carrier>UPS</carrier>
 <service>2ND DAY AIR</service>
 <shipdate>8/28/99 </shipdate>
 <trackingnumber>1Z1812530202075466</trackingnumber>
 <scanlocation>FORT HAMILTON, NY US</scanlocation>
 <weight>400</weight>
 </package>
 </trackit>
<iship.com.response>

FIG. 67

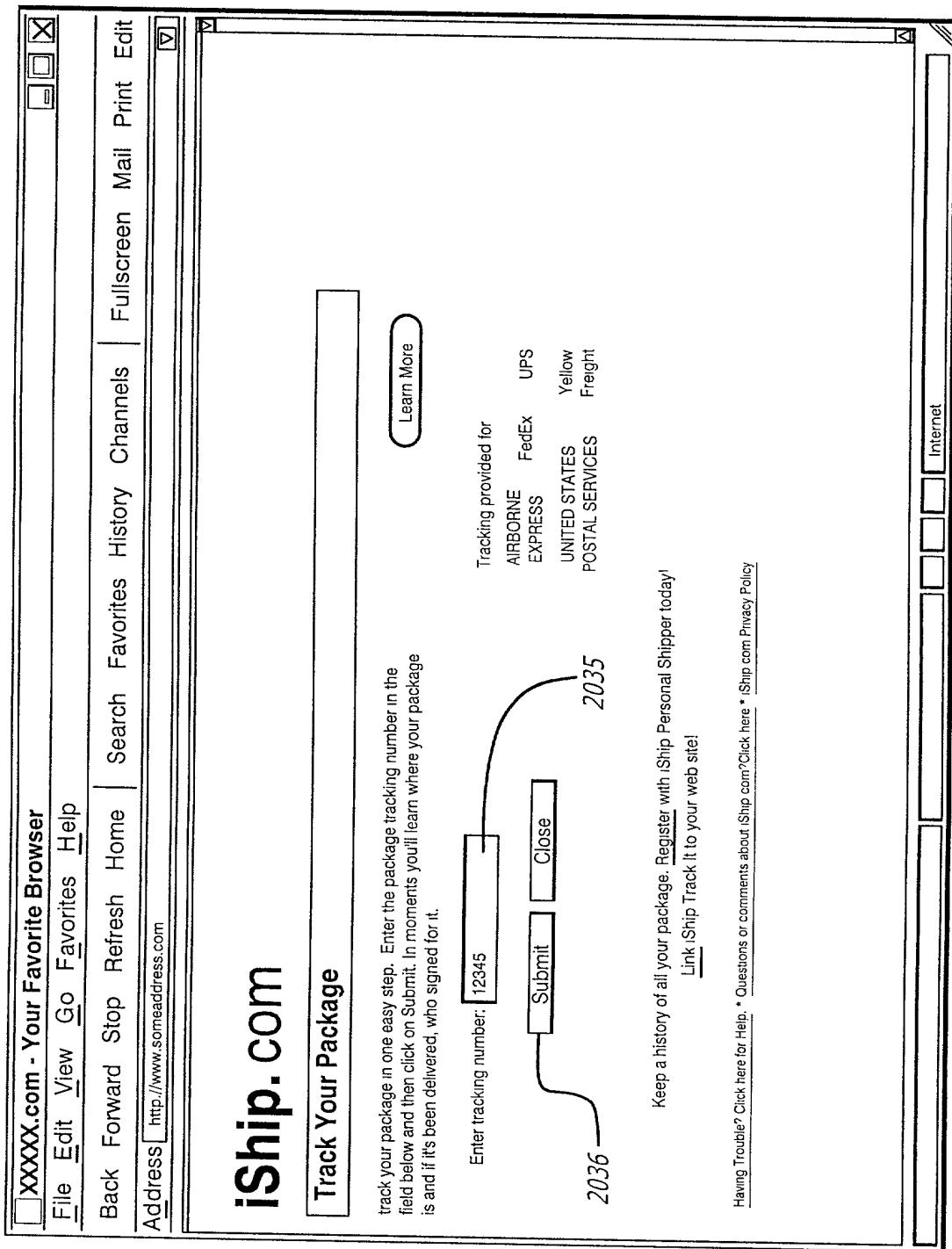
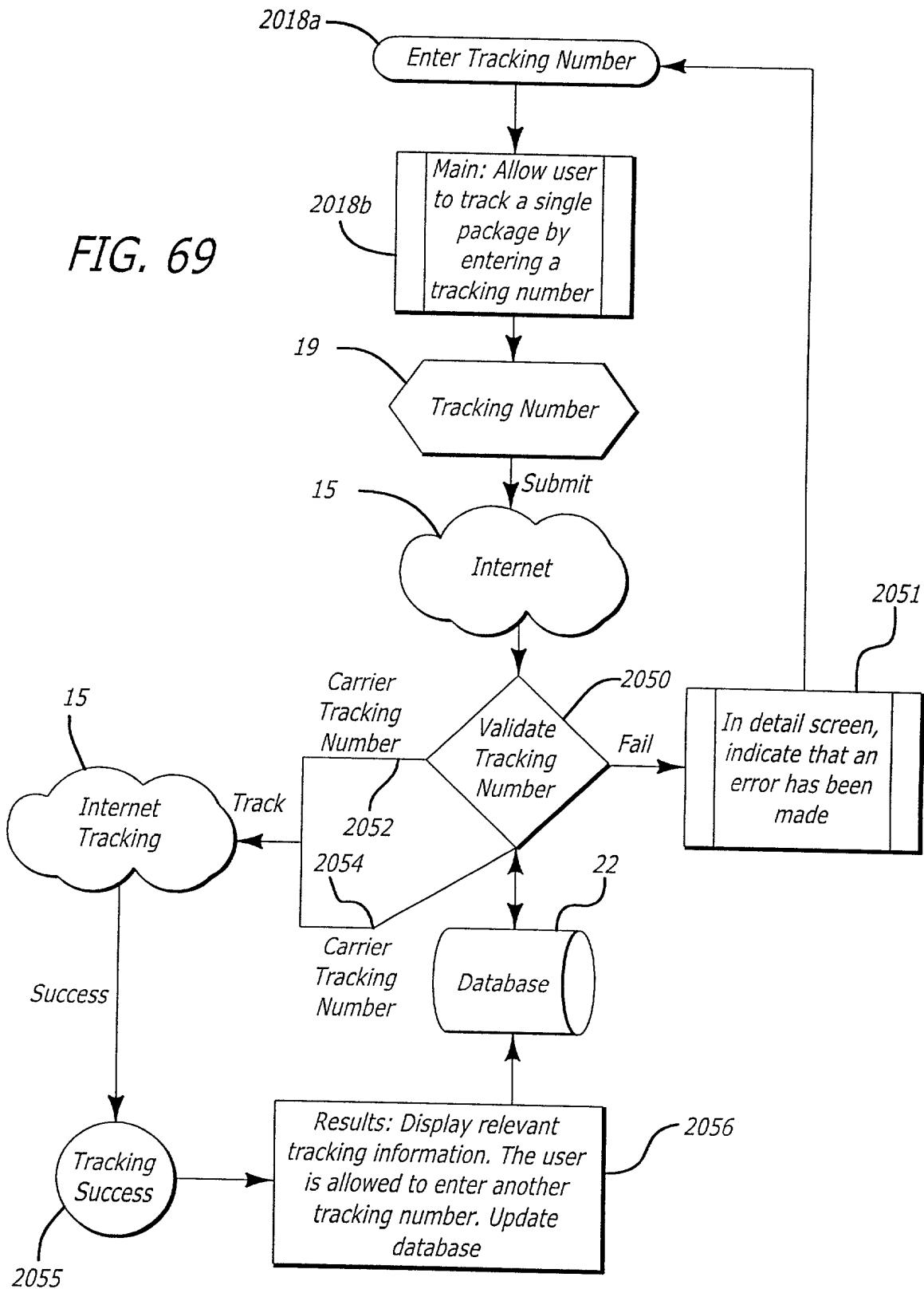


FIG. 68

FIG. 69



xxxxx.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address ▼

iShip.com

Track Your Package

We were unable to track your package. 2061

Please make sure the tracking number is correct, select a carrier from the list below, and click on Submit. 2062

Enter tracking number: 2063

Enter ship date (+/- 4 days): 2064

Select carrier: (Select One) 2065

iShip	UPS	AIRBORNE EXPRESS	AIRBORNE
FedEx	Airborne	UNITED STATES POSTAL SERVICES	FedEx
US Postal Service	US Postal Service	Yellow Freight	UPS
Yellow			

Keep a history 2066

Link Ship Track It to your web site! 2067

Having Trouble? Click here for Help * Questions or comments about iShip.com? Click here * [iShip.com Privacy Policy](#)

Link Internet 2068

FIG. 70

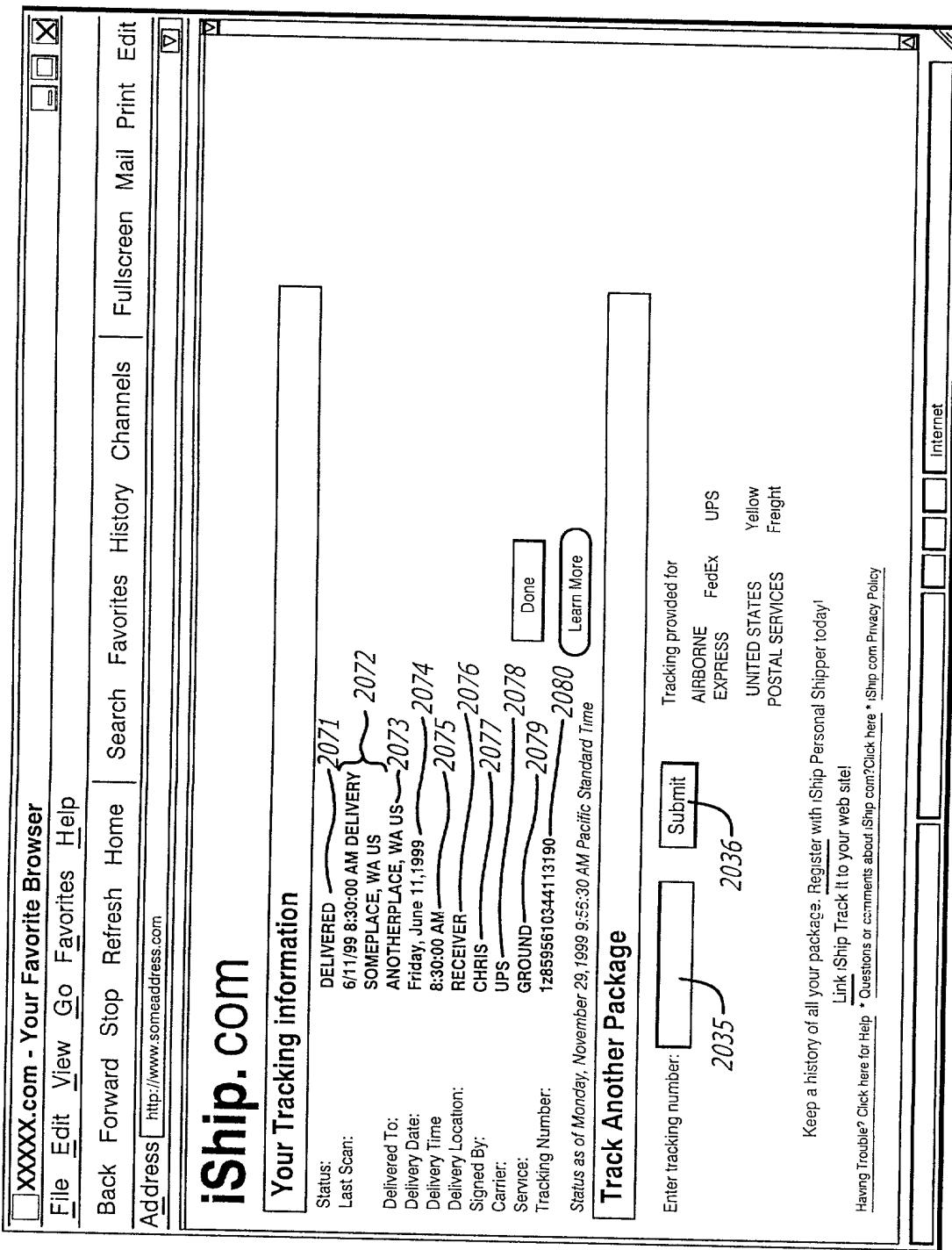


FIG. 71

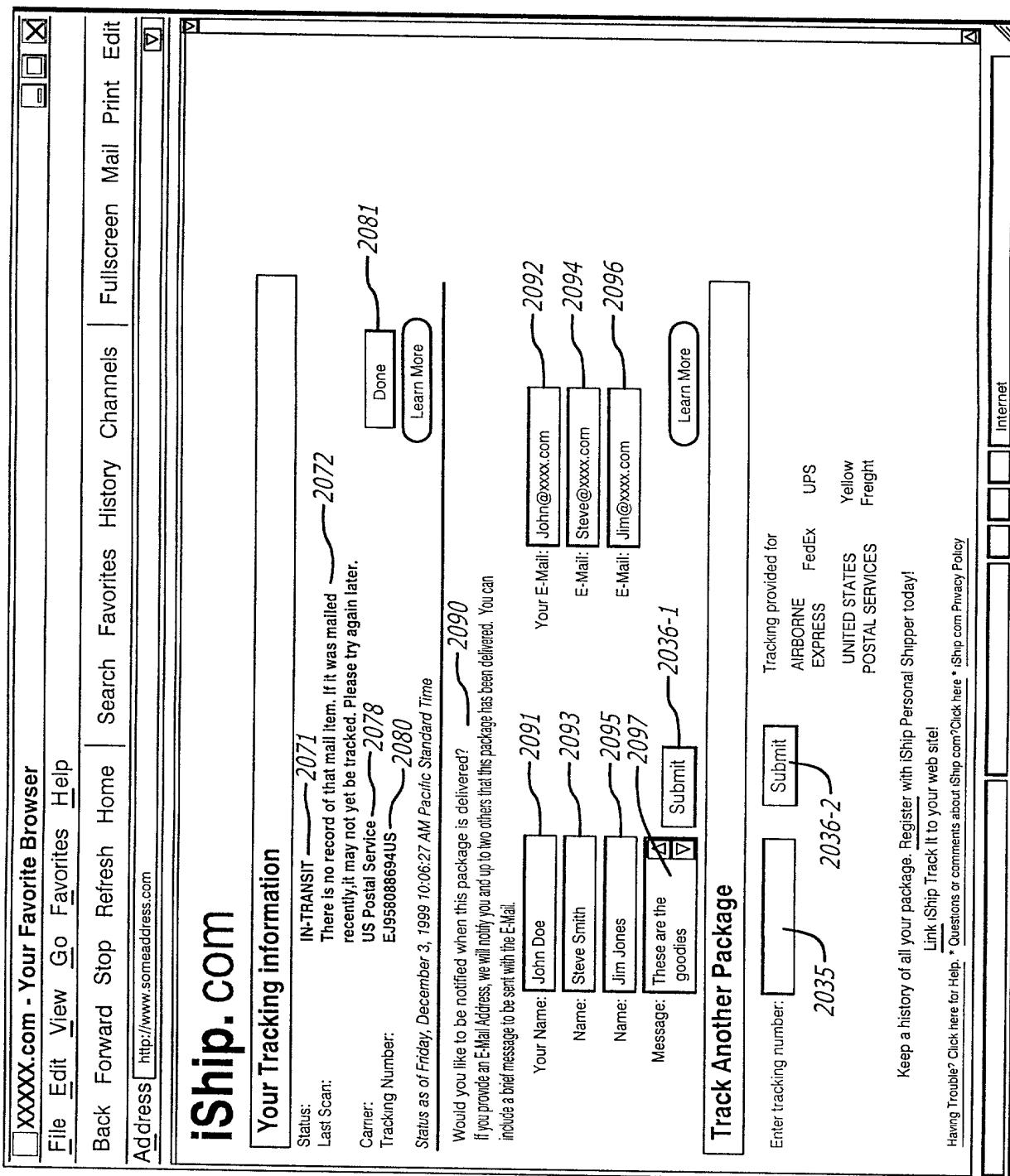


FIG. 72

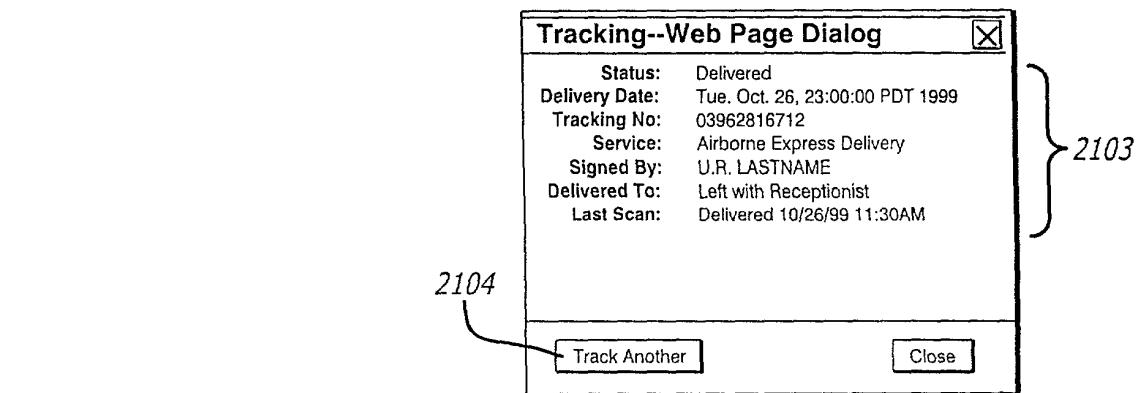
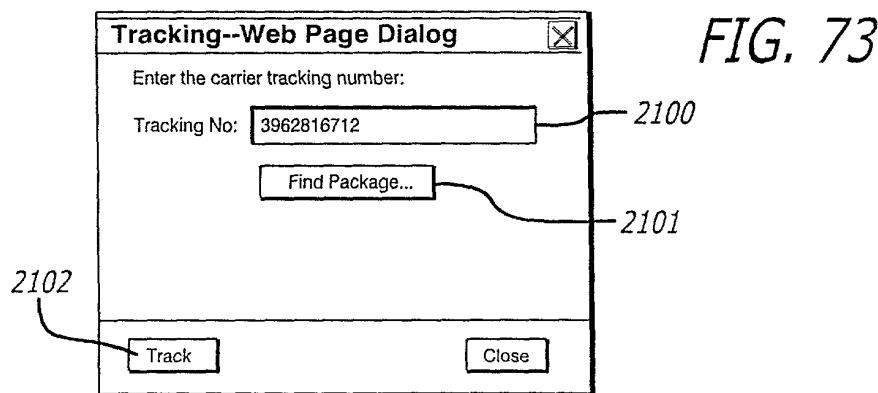


FIG. 74

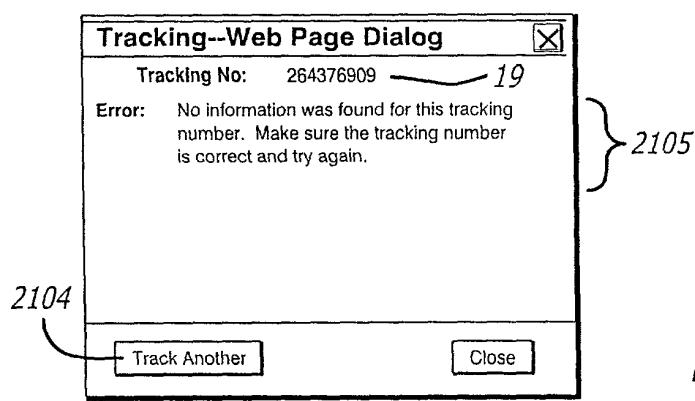


FIG. 75

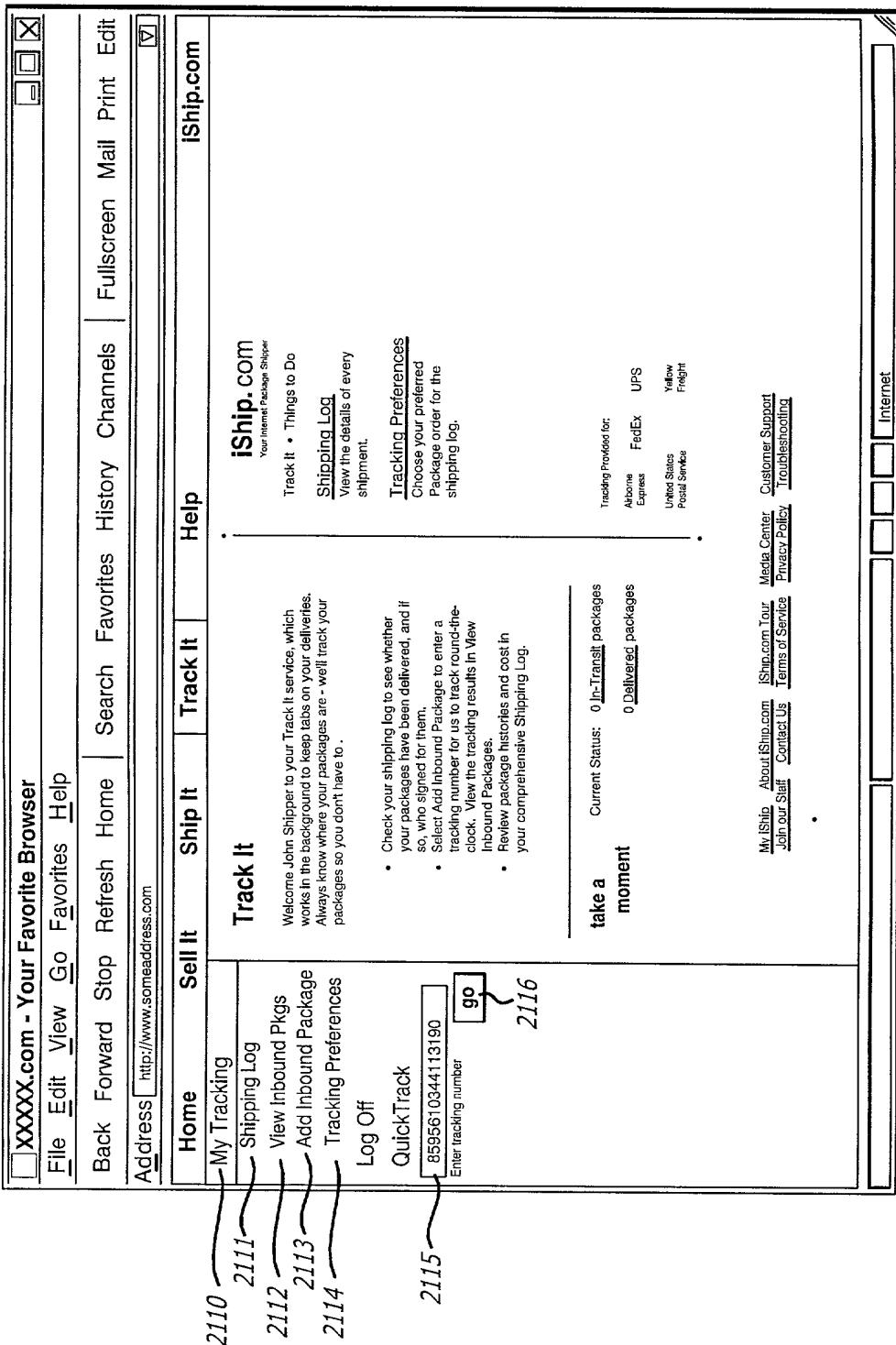
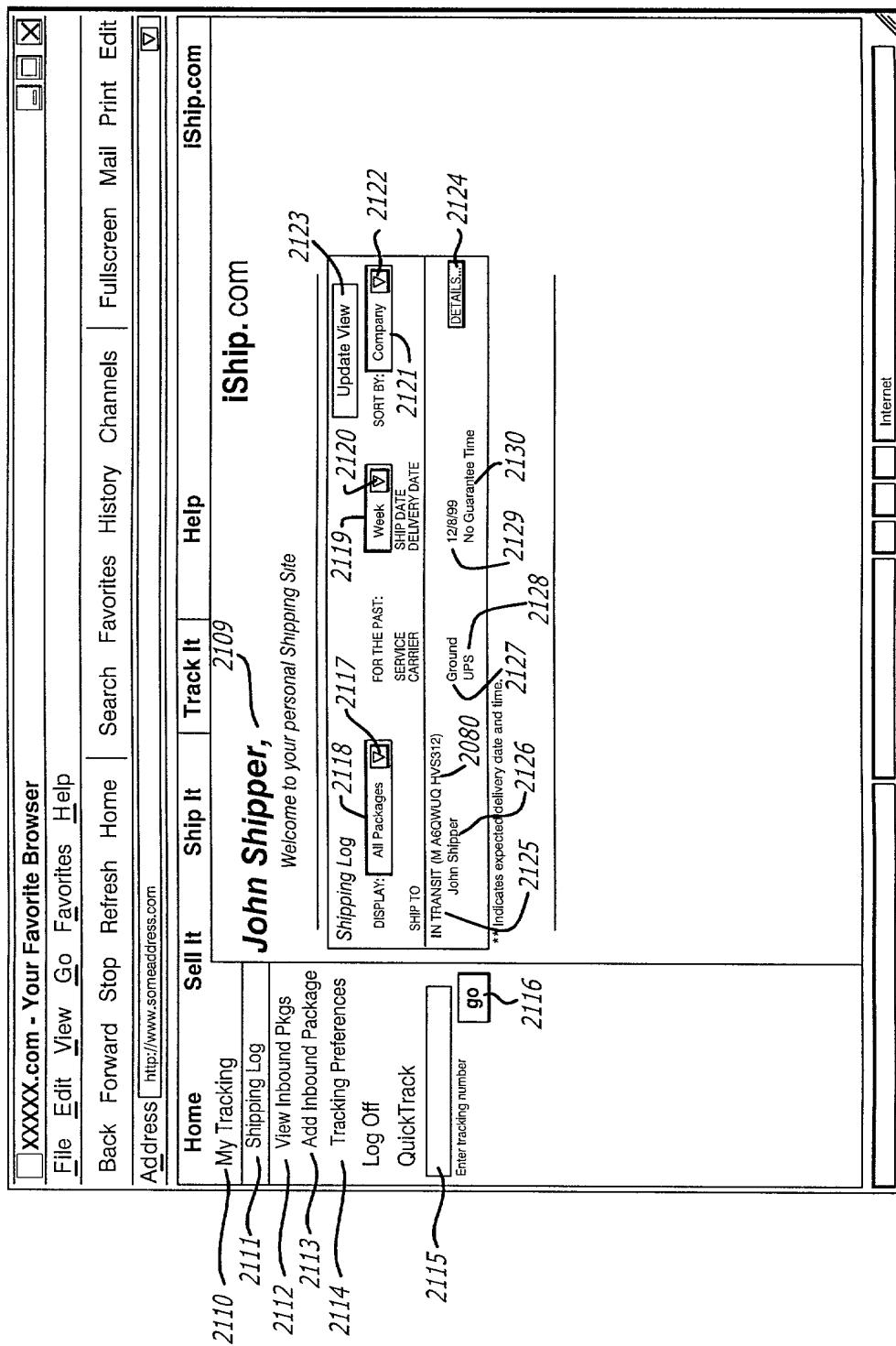
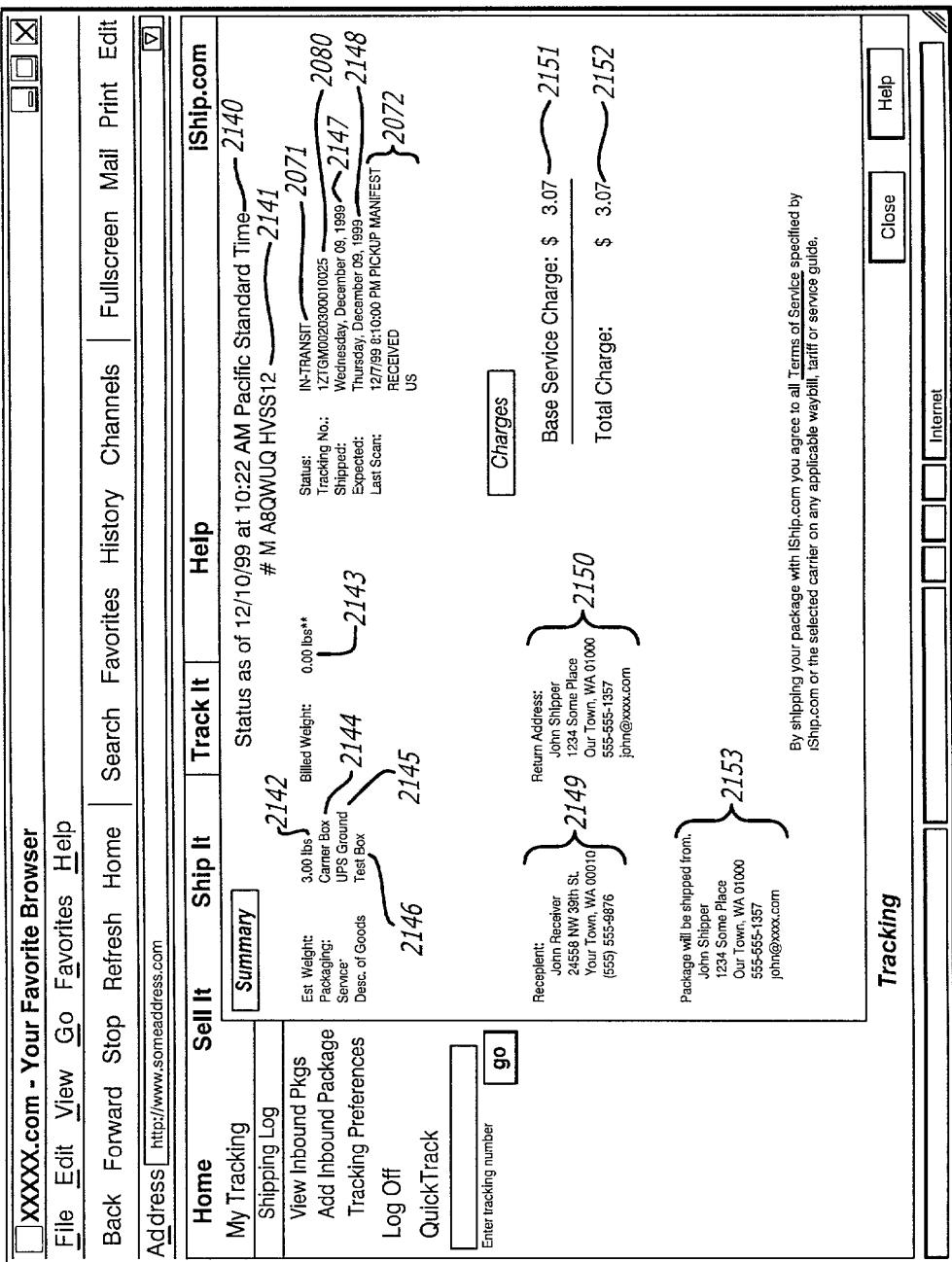


FIG. 76





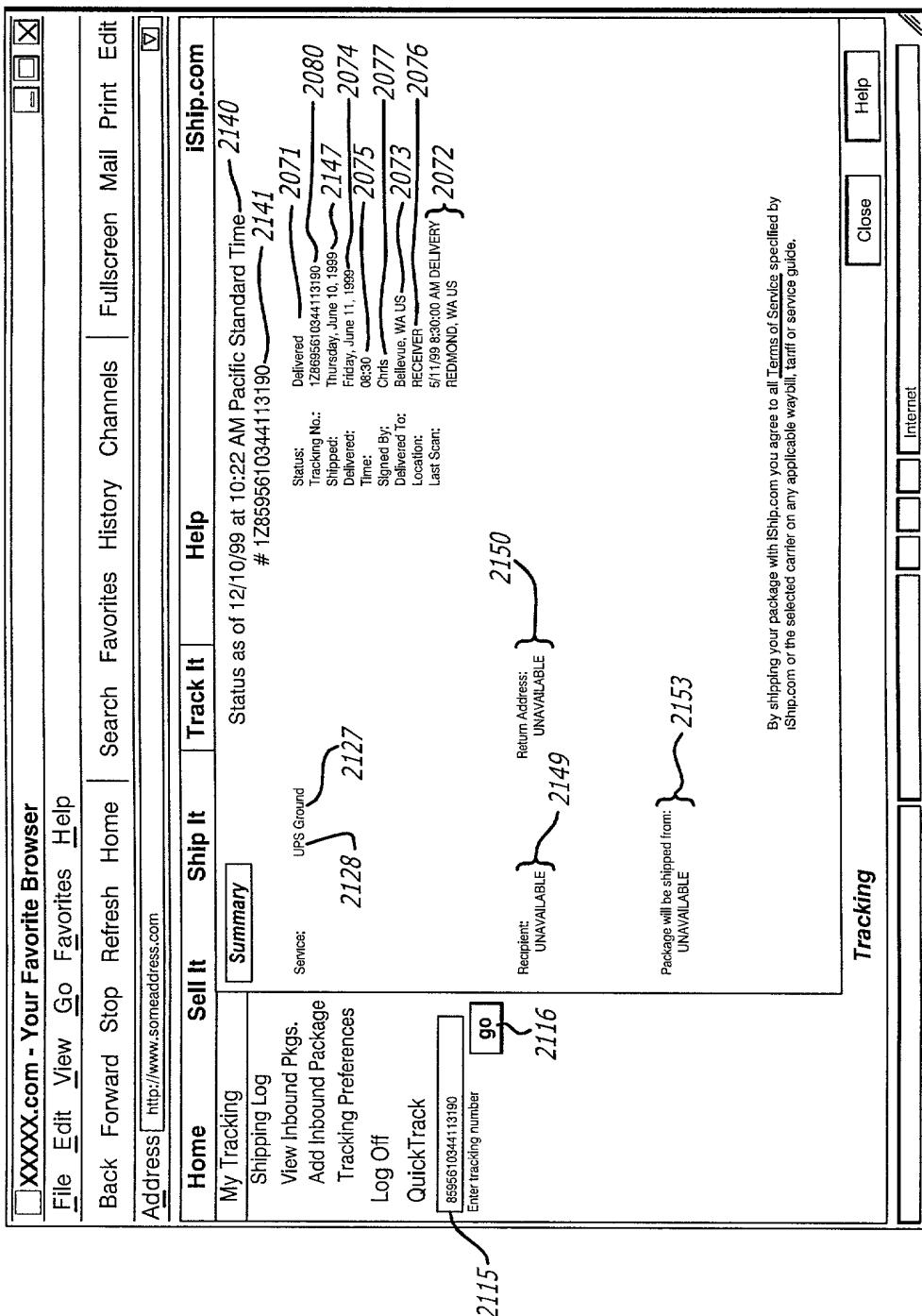


FIG. 79

xxxxx.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit Address

Home **Sell It** **Ship It** **Track It** **Help** iShip.com

Tracking Complete the fields below to add a package to your inbound Package list.

Enter the tracking number of the package you want to add to your Inbound Package list. Select the carrier if known or, if no carrier is selected, we will attempt to determine the carrier from the number entered. You can enter an Order/Item No. to help you identify the package.

Tracking Number: 2035

Carrier: 2128

Order/Item: 2161

2116

Check the box below if you would like to be notified by e-mail when the package is delivered. We can also notify up to two others. You can include a brief message to be sent with E-mail.

2162 Notify me when the package has been delivered. 2164

Message: 2163

2165 2166

Add Inbound Package

FIG. 80

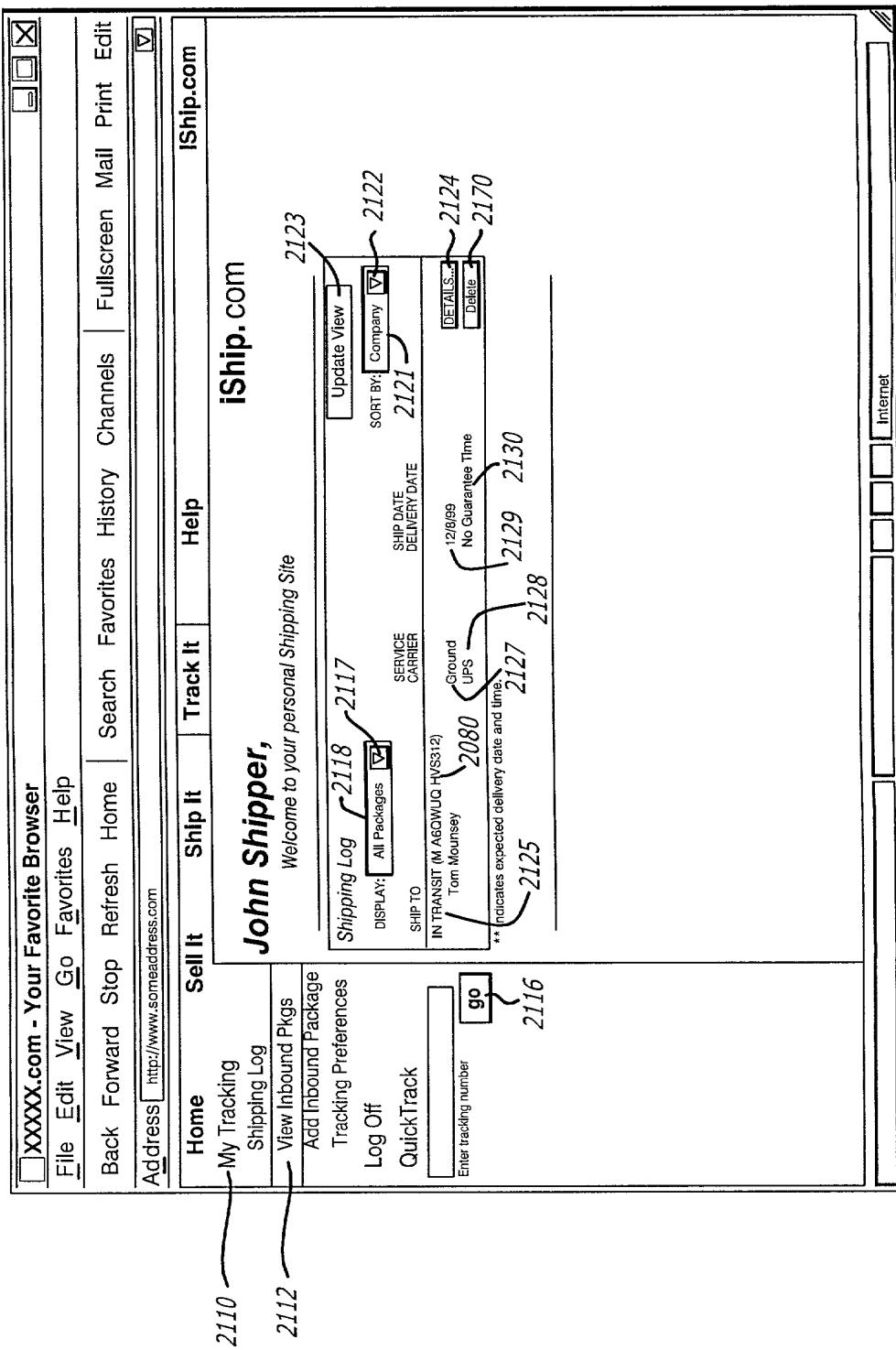
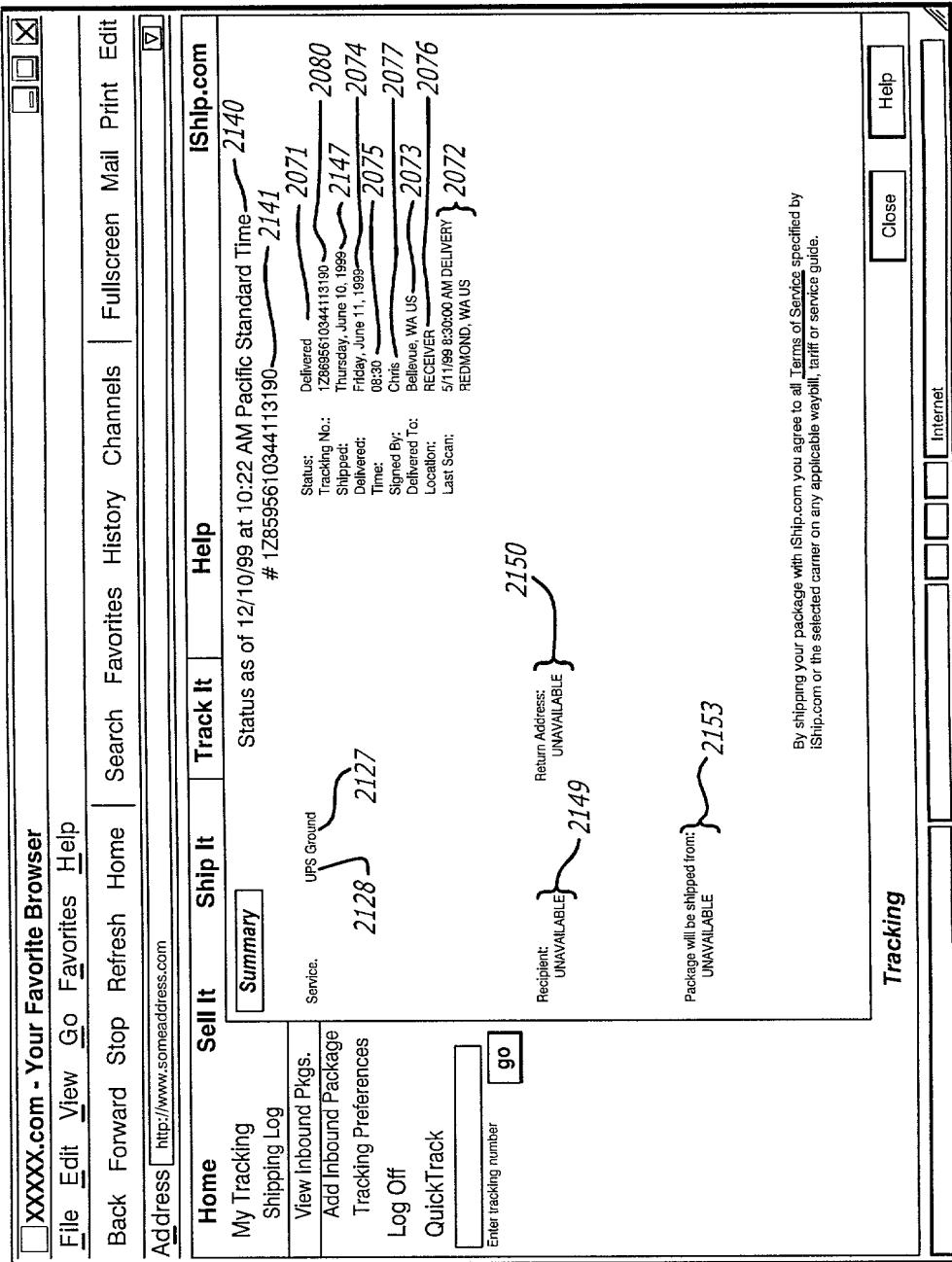


FIG. 81



**COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is for an original application.

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am an original, first and joint inventor of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

REPORTING SHIPPING RATES AND DELIVERY SCHEDULES FOR MULTIPLE SERVICES AND MULTIPLE CARRIERS

SPECIFICATION IDENTIFICATION

The specification is attached hereto.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, Section 1.56(a).

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(35 U.S.C. Section 119(e))

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below:

Practitioner's Docket No. PSTM0009/MRK/ST

PROVISIONAL APPLICATION NUMBER

FILING DATE

60/158,179	October 6, 1999
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POWER OF ATTORNEY

I hereby appoint Marilyn R. Khorsandi, Patent Bar Registration Number 45,744, and all members of the Bar who are attorneys with, or patent agents of, the law firm KHORSANDI PATENT LAW GROUP, A Law Corporation, as principal attorneys with power to appoint associate attorneys, to prosecute and transact all business in the Patent and Trademark Office connected with this application.

The authority under this Power of Attorney of each person identified above shall automatically terminate and be revoked upon such person ceasing to be a member, associate or patent agent of or of counsel to that law firm.

SEND CORRESPONDENCE TO

DIRECT TELEPHONE CALLS TO:

Marilyn R. Khorsandi
140 S. Lake Ave., Suite 312
Pasadena, CA 91101
U.S.A.

Marilyn R. Khorsandi
626-796-2856

Reg. Number 45,744

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURES

First named inventor	Inventor's Signature	Date
David Allison Bennett		
Residence and Post Office address	Citizenship	
20710 14 th Drive, SE, Bothell, Washington 98012		

■■■■■

Forth named inventor	Inventor's Signature	Date
Lynn Shaindell Goldhaber		
Residence and Post Office address	Citizenship	
12618 Robinhood Lane, Snohomish, Washington 98290		

■■■■■

Third named inventor	Inventor's Signature	Date
Paul Bilibin		
Residence and Post Office address	Citizenship	
1716 – 216 th Street SW, Lynnwood, Washington 98036		

■■■■■

Forth named inventor	Inventor's Signature	Date
Charles D. Mentzer		
Residence and Post Office address	Citizenship	
4307 – 210 th Place NE, Redmond, Washington 98053		

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Fifth named inventor	Inventor's Signature	Date
William W. Smith, III		
Residence and Post Office address		Citizenship
8636 NE 7 th Street, Medina, Washington 98039		

■■■■■

Sixth named inventor	Inventor's Signature	Date
Jinyue Liu		
Residence and Post Office address		Citizenship
23029 NE 18 th Street, Redmond, Washington 98053		

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